



**RICHARD V. BARATTA, Ph.D., P.E.  
VICE PRESIDENT**

Dr. Baratta is a 1989 graduate in Biomedical Engineering from Tulane University in New Orleans. Dr. Baratta's primary areas of consulting expertise include injury causation biomechanics, accident reconstruction, medical device failures and intellectual property. Dr. Baratta performs biomechanical analysis on cases involving low-speed accidents, driver determination, falling objects, slip and falls, and amusement rides, and other accidental events. He has reconstructed accidents involving low-speed accidents, high-speed fatality collisions, pedestrian accidents, vehicle rollovers and other types of accidents. Dr. Baratta also provides expertise in relation to modified, high performance and racing automobiles, and high performance vehicle occupant protection systems and injury analysis. Dr. Baratta is fluent in English and Spanish and has testified in both depositions and trials in the United States and Mexico.

Dr. Baratta's prior experience has included multiple aspects of orthopedic, facial and spinal biomechanics and rehabilitative engineering and research. He has an extensive publication record addressing basic, applied, and clinical orthopedic topics and has performed collaborative research with other intramural departments and outside academic and industrial institutions. He has experience in the development, clinical implementation and writing of FDA submissions for a paraplegic ambulation device. Dr. Baratta continues to be involved with teaching biomechanics to orthopedic surgeons seeking recertification.

**EDUCATION AND PROFESSIONAL ASSOCIATIONS**

Ph.D. - Biomedical Engineering – Tulane University, 1989  
M.S. - Biomedical Engineering - Tulane University, 1986  
B.S.E. - Biomedical Engineering & Mathematics, Magna Cum Laude- Tulane University, 1984  
Certified Accident Reconstructionist by the Accreditation Commission for Traffic Accident Reconstructionists, ACTAR #1683  
Bosch Certified Crash Data Retrieval Technician  
Registered Professional Engineer, Texas license #100978, Florida #70049, Louisiana #34792, Illinois #062.061946, Alabama #30609-E, New York #087619, Indiana #10911206, Georgia #037772

**Specialized Courses**

Traffic Accident Investigation – Northwestern University Center for Public Safety, 2005  
Traffic Crash Reconstruction – Institute for Police Technology and Management, 2005  
Vehicle and Occupant Kinematics in Rollovers – Society of Automotive Engineers, 2005  
Injuries, Biomechanics and Federal Regulation – Society of Automotive Engineers, 2005  
Vehicle Frontal Crash Occupant Safety and CAE - Society of Automotive Engineers, 2007  
Crash Data Retrieval Technician Course – Bosch, 2008  
Pedestrian and Bicycle Accident Investigation - Institute for Police Technology and Management, 2009  
OSHA Fatal Accidents and Prevention, Red Vector Online University, 2011  
Motorcycle Crash Investigation - Institute for Police Technology and Management, 2011  
Crash Data Retrieval Technician Course – Bosch, 2012  
Electronic Data Recorder Course, 2012

Member: Society of Automotive Engineers  
Association for the Advancement of Automotive Medicine

Honors: Tau Beta Pi, Alpha Eta Mu Beta, Volvo Award on Low Back Pain Research

**EMPLOYMENT HISTORY**

## RICHARD V. BARATTA, PhD

2005 - Present Rimkus Consulting Group, Inc.  
1988 - 2004 Louisiana State University School of Medicine  
1990 - 1997 Tulane University School of Engineering (Gratis Appointment)

### DETAILED PROFESSIONAL EXPERIENCE:

#### RIMKUS CONSULTING GROUP, INC.

2005 - PRESENT

##### Vice President

Provides consulting services to insurance carriers, law firms, and corporate clients. Evaluates and analyzes biomechanical systems, including voluntary and involuntary human motions. Provides human-injury impact analysis in vehicular accidents, amusement park ride accidents, and cases involving falls or falling objects. Performs occupant motion studies to determine injury potential/causation, seatbelt use, the effects of airbag interaction, and determination of occupant positions. Uses both computer and physical models to reconstruct those accidents and to measure the load and injury levels. Evaluates medical device and hospital equipment failures and malfunctions. Provides technical oversight to biomedical engineering and biomechanics division.

#### LOUISIANA STATE UNIVERSITY SCHOOL of MEDICINE

1988 - 2004

##### Instructor, Assistant, Associate and Full Professor, Orthopedic Surgery Director of Rehabilitative Engineering

Primary areas of research have included multiple aspects of orthopedic research and rehabilitative engineering. Integrated all aspects of research processes to address basic, applied, and clinical orthopedic topics. Performed collaborative research with other intramural departments and outside academic and industrial institutions. Developed, implemented in the clinical setting and wrote FDA IDE submissions for paraplegic ambulation assistive device. Lectured to medical students, orthopedic surgery residents, and physical therapy students. Trained orthotists, physical therapists and physiatrists on the application and evaluation of paraplegic ambulation programs. Incorporated orthopedic surgeons into the research process from identification of study topics through to publication. Trained residents and students in research methods including experimental design, data collection, analysis, and interpretation. Participated in International Committee writing standards for transcutaneous electrical stimulation devices. Integrated 11 diverse research projects into a center grant, then served as Co-director (de-facto operations manager). Participated in departmental and university-wide committees. Designed, planned and implemented a research rotation for Orthopedic Residents. Developed and executed programs for Biomaterials testing under Good Laboratory Practices Certification requirements.

#### TULANE UNIVERSITY SCHOOL OF ENGINEERING

1990 - 1997

##### Adjunct Assistant Professor of Biomedical Engineering

Supervised and mentored engineering student through research projects, as part of ongoing and collaborative research. Student projects were at the undergraduate and graduate levels.

### PUBLICATIONS

Author or co-author of 100 scientific journal articles, and over 150 additional publications in various book chapters, proceedings, and transactions, as well as over 140 scientific paper or poster presentations at local, national and international meetings.