

# FORCON INTERNATIONAL

**JEFFREY A. PIKE**

## **EDUCATION**

Polytechnic Institute of New York - Bachelor of Science

New York University - Master of Engineering

University of Michigan, Wayne State University - Post-Masters

University of Michigan Medical School - Human Gross Anatomy for Medical Students

University of Washington Medical School - Diagnostic Imaging Update

University of Texas Medical Branch - Clinical Anatomy of Emergency Procedures

Mayo Clinic - Arthroscopic Anatomy

University of Kentucky College of Medicine - Back Pain

Vanderbilt University Medical School - Surgical Anatomy of the Liver

Northwestern University Traffic Institute - Accident Reconstruction

Assorted: Professional Classes, Seminars, Technical Meetings and Symposia, in accident reconstruction, anatomy, biomechanics, human factors, injury scaling, physiology, vehicle safety.

## **PROFESSIONAL ORGANIZATIONS**

American Association of Clinical Anatomists (AACCA)

Association for the Advancement of Automotive Medicine (AAAM)

International Council on Alcohol, Drugs and Traffic Safety (ICADTS)

National Academy of Science/Transportation Research Board (TRB)

Society of Automotive Engineers (SAE)

## **AREAS OF INTEREST**

- Injury Mechanism, Injury Causation
- Medical Records Review, Contribution of Pre-Existing Frailty and Other Conditions
- Review/Integrate: Medical Records, Accident Report, Witness Statements, Expert Testimony
- MVA's: Vehicle Inspection, Seat Belt Usage, Airbag Deployment/Non-Deployment
- Slip and Fall, Trip and Fall
- Prepare Expert Reports, Testify at Deposition and Trial

## **CAREER HISTORY**

**Forcon International** - Consultant

**Biomechanics Consulting, Inc.** - President

**Ford Motor Company** - Retired after 32 years (Senior Technical Specialist, Injury Mechanisms and Biomechanics). Experience includes: safety research, regulatory analysis and litigation support.

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## TEXTBOOKS

1. Pike JA, Automotive Safety: Anatomy, Injury, Testing and Regulation, SAE (1990), Second Printing (1997)
2. Pike JA, Neck Injury: The Use of X-Rays, CT's and MRI's to Study Crash-Related Injury Mechanisms, SAE (2002)
3. Pike JA, Forensic Biomechanics: Using Medical Records to Study Injury Mechanisms, SAE (2008)

## PROFESSIONAL ACTIVITIES

- Adjunct Professor, Wayne State University, Biomedical Engineering
- American Medical Association: Course, speaker, panel, "Critical Issues in Care of Elderly", University of Michigan
- Chair, Ph.D. Examination Committee, Wayne State University
- Centers for Disease Control (CDC), Motor Vehicle Injury Prevention Panel
- CDC Research Grant Reviewer
- Detroit Institute of Ophthalmology, The Eye and The Auto Symposium, Keynote Address
- FBI, Partners in Research Initiative, Working Group
- Ford Motor Company, corporate spokesperson
- Ford Motor Company, present lectures and seminars to various departments
- Florida State Legislature, "Older Driver Safety", presentation, Tallahassee
- Harvard Medical School (Division on Aging), guest lecturer
- Kettering University, Safety Laboratory Advisory Board
- Michigan State Police, Forensic Science Division, Consultant
- MIT, New Transportation Technology for Older People Symposium, lecturer, Cambridge
- Maricopa County Association of Governments, National Conference on Aging and Mobility, Scottsdale AZ, speaker and session organizer
- National Academy of Sciences, National Research Council, Transportation Research Board, Task Force on Safety and Mobility of Older Drivers, "Vehicle Factors" Sub-Committee (Chair)
- SAE Government/Industry Meeting, "Biomechanics" session organizer and presenter, Washington, DC
- SAE Conferences Organizer and Speaker: "Vehicle Rollovers", "Older Drivers", "Occupant Protection", "Lower Limb Injury"
- SAE TopTec Conference Advisory Panel
- SAE World Congress, "Airbags" Technical Session Co-Organizer and Co-Chair
- Course Director & Principal Lecturer; more than fifty 1, 2 & 3-day SAE Professional Development Automotive Safety Seminars. Seminar venues include:

Auburn Hills, MI (General Motors University)	San Antonio, TX
Chandler, AZ	San Diego, CA
Costa Mesa, CA	Seoul, Korea
Dayton, OH (Wright-Patterson Air Force Base)	Shanghai, China
Dearborn, MI	Troy, MI (SAE HQ)
Detroit, MI	Traverse City, MI

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## *SAE Professional Development Seminar venues (continued)*

Irvine, CA

Milan, OH (Denton)

Nashville, TN

Vandalia, OH (Delphi)

Washington, MI (TRW)

- SAE, Mature Driver Standards Committee, Chair
- SAE, Human Biomechanics Simulation Sub-Committee, Injury Criteria Task Force
- SAE, Occupant Protection Committee
- SEMCOG (SouthEast Michigan Council Of Governments), "The Role of the Auto Industry in Elderly Mobility and Safety", presentation, panel member, Troy, MI
- University of Michigan, Adjunct Faculty, "Occupant Safety" Class, Southfield, MI
- White House Conference on Aging/Elderly Mobility, Speaker and Panel Member
- White House Conference on Technologies for Successful Aging, Washington DC, Speaker and Panel Member

## **INTERVIEWS**

Arthritis Today, AARP, Automotive & Transportation Interiors, Business Week , CNN-TV, Detroit News/Free Press, Design News, Detroit Free Press, Hearst TV Group, Insurance Institute for Highway Safety, NBC Nightly News, Philadelphia Inquirer, Road and Track, 50+, WEWS-TV (ABC), Washington Post

## **TECHNICAL PUBLICATIONS REVIEWER**

- SAE -- As Principal Organizer for more than 50 multi-day conferences and seminars, review presentations of various speakers
- SAE -- as chair, Mature Driver Standards Committee, review and recommend for approval, applicable SAE Standards and Information Reports
- Accident Analysis & Prevention, Technical paper reviewer
- Centers for Disease Control (CDC), Injury Research Grant Review Committee
- TRB -- as chair, Older Driver Vehicle Factors Subcommittee, review technical papers
- AAAM, Technical Paper Reviewer
- SAE Government Industry Meeting, Session Chair, Technical paper reviewer
- SAE World Congress, "Airbags" Session Co-Organizer, paper reviewer

## **PATENTS AND AWARDS**

Patent Disclosure, Variable Stiffness Electrically Controlled Spring  
Ford Environmental & Safety Engineering Staff Achievement Award  
Ford PM/EI Achievement Award  
SAE Achievement Award, SAE Seminar Instructor  
Patent Disclosure, Manually Adjusted Load Limit Seat Belt  
SAE McFarland Award  
SAE Fellow

**PUBLICATIONS** - Numerous technical papers and book chapters. Full listing available.