

MASOUD GHALAMBOR, M.D.

Private Practice **Sacramento Knee & Sports Medicine Medical Corporation** August 2006 - Current
2801 K Street, Suite 310
Sacramento, CA 95816

(916) 454-6677 www.sacknee.com

EDUCATION **Fellowship in Foot and Ankle Surgery** August 2005 – July 2006
Dr. Arthur Manoli, II
Michigan International Foot & Ankle Center
St. Joseph Mercy – Oakland Hospital, Pontiac, MI

Residency - Orthopaedic Surgery June 2005
Wayne State University, Detroit, MI

M.D. Wayne State University, Detroit, MI June 2000

M. S. Mechanical Engineering (Biomechanics) June 1989
Stanford University, Stanford, CA
General Motors Fellowship

B.S. Mechanical Engineering April 1984

B.S. Aerospace Engineering April 1984
University of Michigan, Ann Arbor, MI

ADDITIONAL TRAINING AO/ASIF Principles of Fracture Management – January 2003
Northwestern University Prosthetics & Orthotics Course – March 2002
Basic Microsurgery – September 2000
Ankle and Foot Arthroscopy and Reconstructive Surgery – November 2006

RESEARCH **Michigan International Foot and Ankle Center** **2005- 2006**
Pontiac, MI

Ghalambor M, Anhalt J, Chilvers M, Manoli II, A: Symptomatic Lesions Associated with Asymptomatic Osteochondral Defects of the Talus. Submitted for publication, and poster presentation at 2006 Annual AOFAS Meeting, San Diego, CA

Department of Orthopaedic Surgery **2001- 2005**
Wayne State University, Detroit, MI

Ghalambor M, Watson JT: Effect of an Ilizarov Foot Frame on Maintaining the Articular Congruity of the Tibial Plafond – A Biomechanical Study. Cadaveric specimens were used to quantify the contribution of the Ilizarov foot frame in protecting the ankle joint and maintaining fracture fragment reduction.

Ghalambor M, Watson JT: Chronic Osteomyelitis in Distal Metaphyseal Tibia and Fibula Associated with an Ilizarov Tranfixion Wire – A Case Report. Submitted for publication.

Michigan Brain and Spine Institute **2002 - 2003**
St. Joseph Mercy Hospital, Ypsilanti, MI

Ghalambor M, Boudreau J, Falahee M, Geiger D: Outcome of Operative Treatment of Primary Single Level Lumbar Disc Herniation – A Retrospective Study. Preliminary results presented at the Michigan Orthopaedic Society (May 2003) and the final report at Mid-America Orthopaedic Association (April 2005).

RESEARCH
(continued)

Department of Orthopaedic Surgery
University of Michigan, Ann Arbor, MI

1997 - 1999

Ghalambor M, Goulet J: Surgical Treatment of Posterior Wall Acetabular Fractures – A Retrospective Outcome Study.

The Biomechanics, Trauma and Sports Medicine Laboratory
and the Department of Orthopaedic Surgery
University of Michigan, Ann Arbor, MI

1988

Ghalambor M, Goldstein S, Goulet J, Kuhn J, Biomechanics of Intramedullary Nailing. A fixture was designed to measure nail displacement, impact load and mid-shaft hoop strains as various types and sizes of intramedullary nails were driven into intact adult cadaveric femora.

Department of Safety and Crashworthiness
North American Operations
General Motors Corporation

1988 - 1996

- "Recommended Airbag Sensor Firing Times", GM Engineering Publication No. CPER-322
- "Effect of Airbag Sensor Timing Variations (and Delayed Deployment) on Driver Performance", GM Engineering Publication No. PDS-267
- "Prediction of Facial Loads in Frontal Impacts and Determination of Threshold Face-to-Steering Wheel Contact Velocity for Different Size Occupants", GM Engineering Publication No. CPER-345
- "Analysis of Different Size Occupants in Frontal Impacts Using Free Flight Calculation and Ridedown Technique", GM Engineering Publication No. CPER-343
- "Analysis of Occupant Performance in Vehicle to Pole Crashes Using the Mertz-Marquardt Ridedown Technique", GM Engineering Publication No. CPER-238
- "Computer Simulation of Airbag Inflation for the Development of a Driver-Side Stored-Gas Inflator", GM Engineering Publication No. PDS-268

A series of investigations to develop computer analysis techniques for: 1) Determination of airbag firing times or airbag suppression, 2) Guiding the design of steering wheels to minimize facial injuries, 3) Developing baseline inflation rate and stiffness requirements for the driver and passenger airbags and 4) Evaluating the performance of different size occupants (5% - 95%ile) in various crash situations.

- "The Kinetic Dummy Development Project"

A new generation of anthropomorphic test devices were designed to assess lower leg, abdominal and facial injuries in vehicle crash simulations. The kinetic dummy was in turn used to develop more occupant-friendly restraint systems.

- "A Smart Sensing Algorithm for Driver and Passenger Supplemental Inflatable Restraints", Ghalambor M, Mertz HJ, Cok D, and Greib G.

A computer algorithm was developed for the new piezo-electric accelerometers used for crash sensing.

PRESENTATIONS: “New Trends in Surgical and Non-Surgical Management of Common Foot & Ankle Disorders”

Orthopaedic Symposium, Sutter Orthopaedic Institute, Sacramento, CA	09/06
Medical Staff, Enloe Medical Center, Chico, CA	12/06
Sutter Medical Group North, Yuba City, CA	01/07
LaFoot Plus Physical Therapy, Sacramento, CA	01/07
Medical Staff, Sutter Medical Group, Elk Grove, CA	03/07
Orthopaedic Symposium, Sutter Orthopaedic Institute, Sacramento, CA	05/07

EMPLOYMENT **North American Operations - Safety Center**
General Motors Corporation

Performance Engineer Overall responsibility for occupant protection in side collisions including design of door structural components, computer analysis, testing and system validation. 1994 - 96

Development and Release Engineer Responsible for packaging, design, development, validation and release of passenger-side Supplemental Inflatable Restraint (SIR) systems of three future car-lines. Also responsible for development of the safety belts as part of the total occupant protection system. 1991 - 93

Sr. Project Engineer Led the development of occupant protection technologies pertaining to SIR systems; Managed a team of four graduate engineers in creating more efficient restraint system design processes. Projects included enhancements to crash simulation models and the Hybrid III dummy. 1989 - 90

Developed an acceleration-based sensing algorithm for future SIR systems with significant improvements in reliability and requiring less calibration and testing.

Lead Engineer Led a forum to promote uniform safety technology throughout GM. Coordinated bi-monthly meetings for corporate wide exchange of restraint system and occupant protection technology. Developed the crashworthiness goals and a three year project plan for a next generation vehicle. 1987 - 88

Project Engineer Enhanced the ability of computer simulation tools to reduce the design cycle time and cost of incorporating restraint systems in GM vehicles. Developed a complimentary interior design for a future vehicle to provide protection for unbelted occupants in statistically significant accidents. 1984 - 86

TEACHING EXPERIENCE **Northwestern Learning Center** **1990 - 1996**
Okemos, MI

Taught thermodynamics, chemistry, math/calculus, statics and dynamics to students preparing for the Professional Engineering Certification exam.

Sacramento Knee & Sports Medicine Medical Corporation **2006-2007**

University of California Davis Medical Center, Orthopedic Resident Rotation
Physical Therapists, LaFoot Physical Therapy, Clinical Rotation

PATENTS Passenger side Supplemental Inflatable Restraint Deflector Assembly
Smart sensing algorithm for airbag deployment

LICENSURE

Medical Licence – State of California – ID# A94111 – Expiration
Medical Licence – State of Michigan – ID# 4301076186
American Board of Orthopaedic Surgery, Board Certified, July, 2009
USMLE Step 3 – Pass – March 2002
USMLE Step 2 – Pass – September 1999
USMLE Step 1 – Pass – June 1998
Professional Engineer – State of Michigan – ID# 6201036748
Supervisor & Operator, Radiology/Fluoroscopy, State of California

AFFILIATIONS

American Academy of Orthopaedic Surgeons
American Orthopaedic Foot and Ankle Society
California Orthopaedic Association
California Chamber of Commerce
Tau Beta Pi Engineering Honor Society
Team Physician, Sacramento City College
Team Physician, Sacramento Capitals World Team Tennis
Assistant Clinical Professor, UC Davis
Western Orthopaedic Association

HOSPITAL

Sutter Medical Center, Sacramento, CA
Sutter-Alhambra Surgery Center, Sacramento, CA