Steven M. Madey, M.D., Director of Hand Trauma, Legacy Health System, Portland, OR.

Education:

Institution	*Degree*	*Year*	*Field of Study*
Columbia University, New York, NY	M.D.	1989	Medicine
Presbyterian Hospital, New York, NY	Internship	1991	Internal Medicine
University of Iowa, Iowa City, IA	Research Fellowship	1992	Biomechanics Research NIH Training Grant
University of Iowa, Iowa City, IA	Residency	1996	Orthopaedic Surgery
University of Iowa, Iowa City, IA	Fellowship	1997	Hand and Microvascular Surgery

Research and Professional Experience:

1991 - 1992 Research Fellowship, NIH Training Grant, Biomechanics Laboratory, University of Iowa, IA.

1996 – present Clinical Senior Instructor, Dept. of Orthopaedics, Oregon Health Sciences University, Portland, OR

1997 – 1999 Director of Hand Surgery, Portland Orthopedic Clinics, Portland, OR

1999 - present Director of Hand Trauma, Legacy Emanuel Hospital, Portland, OR.

Hospital Appointments:

Active Staff: Legacy Emanuel Hospital

Active Staff: Legacy Meridian Park Hospital

Active Staff: Legacy Good Samaritan Hospital

Active Staff: Providence Portland Hospital

Active Staff: Providence St. Vincent Hospital

Professional Affiliations:

American Academy of Orthopaedic Surgeons (AAOS)

American Medical Association (AMA)

Awards / Reviews:

Henderson Prize for Excellent in Medical Writing, Mid-American Orthopaedic Association, San Antonio, TX, 1996

Editorial Duties:

Iowa Orthopedic Journal, Co-Editor, 1995

Patents:

Bottlang, M., Krieg, JC, **Madey**, SM, Long, WB. *Method and Apparatus for Non-Invasive Stabilization of Pelvic Ring Disruptions*. U.S. Patent No. 6,554,784, April, 2003.

Licensure:

Iowa, # MD-R-4612

Oregon, # MD 20430

Investigator / Grant Awards

NIH, National Institute of Neurological Disorders and Stroke, "An Organotypic Model of Traumatic Brain Injury", Consultant, 1 R01 NS 42946-01, 2002-2004 $ 1,054,500

U.S. Office of Naval Research, "Emergent, Non-Invasive Reduction and Stabilization of Pelvic Ring Disruptions", Co-Investigator, 2000-2002 $ 288,000

Legacy Foundation, " Operative Chest Wall Fixation", Co-Principal Investigator, 2002-2003 $ 68,300

Zimmer Corporation, Micromotion in Unicompartmental Knee Arthroplasty, Co-Investigator, 2003 $ 47,290

EBI Medical, Articulated External Fixation of Diarthrodial Joints, Co-Investigator 2001-2003 $ 133,200

Synthes (USA), A Model of Implant Cut-Out Failure in Pertrochanteric Fracture Fixation, Co-Investigator, 2001-2003 $ 117,915

Legacy Foundation, "Strain Assessment in Articular Cartilage", Co-Principal Investigator 2001-2002 $ 78,300

Mathys (Switzerland), Pertrochanteric Fracture Fixation, Co-Investigator, 2002 $ 10,670

Legacy Foundation, "Cartilage Degeneration in Arthritic Joints", Co-Principal Investigator 2001-2002 $ 46,300

Peer-Reviewed Original Publications:

1. Sommers, M.B., Roth, C., Hall, H., Kam, B.C.C., Ehmke, L.W., Krieg, J.C., **Madey**, S.M., Bottlang, M.: Cut-out resistance of implants for pertrochanteric fracture fixation. Provisionally accepted, J Orthop Res., April, 2003.

2. Bottlang, M., Krieg, J. C., Mohr M., Simpson, T. S., **Madey**, S.M.: Emergent Management of Pelvic Ring Fractures by Circumferential Compression. Journal of Bone Joint Surgery, 84-A:2, 43-47, 2002.

3. Bottlang, M., Simpson, T., Sigg, J., Krieg, J.C., **Madey**, S.M., Long, W.B.: Non-invasive reduction of open-book pelvic fractures by circumferential compression. J Orthop Trauma; 16:6, 367-73, 2001.

4. Bottlang, M., **Madey**, S.M., Steyers, C.M., Marsh, J.L., Brown, T.D.: Assessment of elbow joint kinematics in passive motion via electromagnetic motion tracking. J Orthop Res, 18:2, 195-202, 2000.

5. **Madey**, S.M., Bottlang, M., Steyers, C.M., Marsh, J.L., Brown, T.D.: Hinged external fixation of the elbow: optimal axis alignment to minimize motion resistance. J Orthop Trauma, 14:1, 41-47, 2000.

6. Bottlang, M., O'Rourke, M., **Madey** S.M., Steyers, C., Marsh, J.L., Brown, T.D.: Radiographic determinants of the elbow rotation axis: experimental identification and qualitative validation. J Orthop Res, 18:5, 821-828, 2000.

7. O'Rourke, M., Steyers, C.S., Marsh, J.L., Bottlang, M., **Madey**, S., Brown, T.D.: *Articulated elbow external fixation: determinants for optimal hinge alignment*". Atlas of Hand Clinics, W. B. Saunders Company, 5:1, 173-190, 2000.

8. **Madey** S.M., Callaghan J.J., Goetz D., Johnston R.C., "Minimum fifteen year follow-up of Charnley total hip arthroplasty using contemporary cementing techniques", J. Bone and Joint Surgery, May 1996.

9. **Madey** S.M., Wolff A.J., Brand R.A., Cole K.J., "Mechanoreceptors of the cat ACL labeled with WGA-HRP", Journal of Anatomy, March 1996.

Abstracts:

1. Bottlang, M., Krieg, J.C., Simpson, T., **Madey**, S.M.: True Magnitude of Fracture Displacement in Pelvic Ring Fractures. XXII World Congress of SIROT, accepted for podium presentation, San Diego, CA, 2003.

2. Bottlang, M., Mohr, M., Heuer, F., Krieg, J.C., **Madey**, S.M.: Ture magnitude of displacement in pelvic ring fractures. ASB 2004.

3. Bottlang, M., Krieg, J.C., Simpson, T., **Madey**, S.M.: True Magnitude of Fracture Displacement in Pelvic Ring Fractures. XXII World Congress of SIROT, accepted for podium presentation, San Diego, CA, 2002.

4. Krieg, J.C., Simpson, T.S., **Madey**, S.M., Long, W.B., Bottlang, M.: Stabilization of Pelvic Ring Fractures by Circumferential Compression. Proc. 69th Am Acad Ortho Surg, Dallas, TX, 9:532.

5. Simpson, T., Bottlang, M., Sigg, J., Krieg, J.C., **Madey**, S.M.: Pelvic Ring Disruptions: Reduction by Means of Circumferential Compression Using a Sling. Trans. Ortho. Trauma Assoc., San Antonio, TX, 2000.

6. Bottlang, M., Sigg, J., Simpson, T., Krieg, J.C., **Madey** S.M.: Emergent Non-Invasive Reduction of Pelvic Ring Disruptions. Trans. 23rd Am. Soc. Biomech., Chicago, IL, 2000.

7. Sigg J., Bottlang M., Simpson T., Krieg J. C., **Madey** S. M., "Open Book Pelvic Fractures: Effect of Pelvic Reduction and Hematoma Formation on Retroperitoneal Pressure", Trans. 23rd Am. Soc. Biomech., Chicago, IL, 2000.

8. Bottlang M., **Madey** S. M., Steyers C. M., Marsh J. L., Brown T. D., "Hinged External Elbow Fixation: Optimal Axis Alignment to Minimize Motion Resistance", Trans. 45th Orthop. Res. Soc., 24(1):494, 1999.

9. Bottlang M., **Madey** S. M., Marsh J. L., Brown T. D., "Pathway and Location of Instant Axes of Elbow Joint Rotation", Trans. 44rd Orthop. Res. Soc., 23:2, 1142, 1998.

10. Bottlang M., **Madey** S. M., Steyers C. M., Marsh J. L., Brown T. D., "Application of Electromagnetic Motion Tracking for the Assessment of Elbow Joint Kinematics in Passive Motion", Trans. 22st Am. Soc. Biomech., 1998.

11. Bottlang M., **Madey** S. M., Steyers C. M., Marsh J. L., Brown T. D., "Hinged External Fixation of the Elbow Joint: Importance of Fixator Hinge Position", Trans. Orthop. Trauma Assoc., p. 289, 1998.

12. Bottlang M., **Madey** S. M., Marsh J. L., Brown T. D., "Pathway and Location of Instant Axes of Elbow Joint Rotation", Trans. 44th Orthop. Res. Soc., 23:2, 278, 1998.

Scientific Exhibits

1. Bottlang, M., Krieg, J.C., Mohr, M., Simpson, T.S., **Madey**, S.M., "Emergent Management of Pelvic Ring Fractures by Circumferential Compression". Am Acad Orthop Surg., Annual Meeting, SE 49, Dallas, TX, 2002.

Book Chapters

1. O'Rourke, M., Steyers, C. S., Marsh, J. L., Bottlang, M., **Madey**, S., Brown, T. D., "Articulated Elbow External Fixation: Determinants for Optimal Hinge Alignment". Atlas of Hand Clinics, W. B. Saunders Company, 5:1, 173-190, 2000.
2. **Madey** S.M., Kasdan M.L., "Nailbed and Fingertip Injuries", *Hand Secrets*, Ed. P. L. Jesson, M. L.Kasdan. Hanley & Belfus, Inc., 1998.
3. **Madey** S.M. and Brand R.A., "Sensory role of ACL", *The Anterior Cruciate Ligament*, Ed. D. Jackson, Raven Press, 1993.