David Ross
Director of Bioengineering and Biomechanics
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Education
University of Florida, Gainesville, FL BFA 1965 – 1969
University of Florida, Gainesville, FL MFA 1971 – 1973

Positions and Honors
1974 - 1977 Director, Media Systems
University of Texas Southwestern Medical School, Dallas, Texas

1977 - 1982 Associate Director, Educational Media
Texas Tech University School of Medicine, Lubbock, Texas

1982 - 1983 Electronics Instructor
Northwest Mississippi Community College, Senatobia, Mississippi

1983 - 1988 Electronics Engineer, Research Department,
Texas Scottish Rite Hospital for Children, Dallas, Texas

1988 - 2001 Senior Bioengineer, Research Department
Texas Scottish Rite Hospital for Children, Dallas, Texas

April 2001 to Director of Bioengineering and Biomechanics, Research
Present Department, Texas Scottish Rite Hospital for Children, Dallas, Texas

Selected peer-reviewed publications (in chronological order)
1. Cook, J.D., Iannaccone, S.T., Russman, B.S., Samaha, F., Buncher, R.R., Ross, J.D. Protocol Development and Reliability of Quantitative Strength Assessment Method. *J Neurol Rehab* 1992; 6(4):175-183.

2. Cook, J.D., Iannaccone, S.T., Russman, B.S., Samaha, F., Buncher, R.R., Ross, J.D. A Methodology to Measure the Strength of SMA Patients. *Muscle & Nerve* 1990; 13:7-10.

3. Cook, J.D., Iannaccone, S.T., Russman, B.S., Samaha, F., Buncher, R.R., Ross, J.D. Preliminary Observations on the Reliability of the DCN-SMA Study Group Methodology. *Muscle & Nerve* 1993; 13:11-12.

4. Samchukov, M.L., Ezaki, M., Tucker, W.F., Ross, J.D. Restoration of Apposition Function in Residual Hand by the Ilizarov Method. *Bulletin Hospital for Joint Diseases* 1993-1995; 53(4): 13.

5. Samchukov, M.L., Cope, J., Harper, R., Ross, J.D. Biomechanical Considerations of Mandibular Lengthening and Widening by Gradual Distraction Using a Computer Model. *J Oral Maxillofac Surg*1998; 56:51-59.

Patents

Computer Control Apparatus Including a Gravity Referenced Inclinometer
J. David Ross; U.S. 4,862,172; August 29, 1989.

Pneumatic Wire Tensioner
J. David Ross, Mikhail L. Samchukov, John G. Birch; U.S. 5,431,659; July 11, 1995.

Fastener for External Fixation Device
J. David Ross, Mikhail L. Samchukov, John G. Birch; U.S. 5,451,225; September 19, 1995.

Fastener for External Fixation Device Wires and Pins
J. David Ross, Mikhail L. Samchukov, John G. Birch; U.S. 5,630,814; May 20, 1997.

Distractor Mechanism for External Fixation Device
J. David Ross, Mikhail L. Samchukov, John G. Birch; U.S. 5,681,309; October 28, 1997.

Distractor Mechanism for External Fixation Device
J. David Ross, Mikhail L. Samchukov, John G. Birch; U.S. 5,766,173; June 16, 1998.

External Fixation Device and Method
J. David Ross, Robert D. Welch; U.S. 5921985; July 13, 1999.

Plastic Double Nut Mechanism Enabling Rigid Orthopedic Distraction
J. David Ross, Mikhail L. Samchukov, John G. Birch; U.S. 5968043; October 19, 1999.

Device and Method for Enhancing the Shape, Mass, and Strength of Alveolar and Intramembranous Bone
Mikhail L. Samchukov, Rohit C. L. Sachdeva, J. David Ross; U.S. 5,980,252; November 9, 1999.