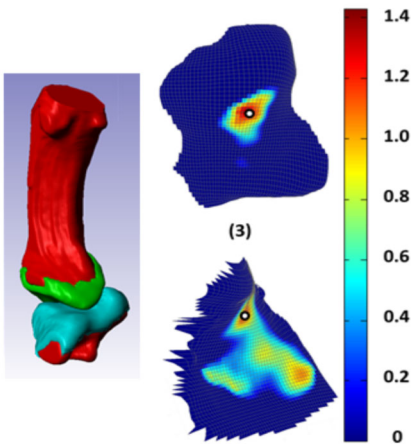
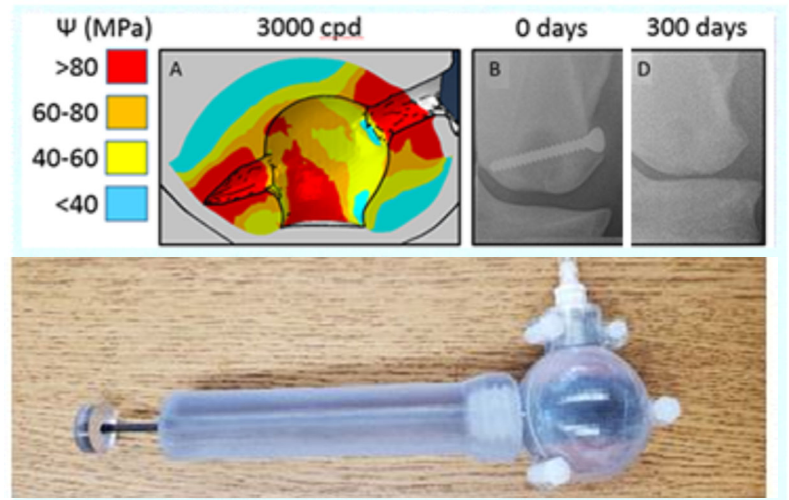


# Musculoskeletal Biomechanics Laboratory

## Research:

- Hand and wrist biomechanics
- Computer modeling of functional activities
- Orthopedic tissue characterization
- Biomechanics of bone cysts in young horses and humans
- Ergonomic devices: minimize joint forces when using a micropipette



## Collaborating Faculty:

**Human joint studies:** E. B. Toby, MD (KU Med); T. McIlff (KU Med) and S-P. Lee (KU Med)

**Bone cyst studies** E. Santschi, DVM (Kansas State Equine Surgery); M. McCullough, PhD and Zhigang Xu, PhD (North Carolina A&T State Univ); Jeremiah Easley, PhD (Colorado State Univ)

## Equipment:

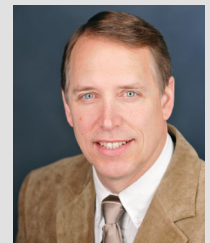
Multiple PC and unix computers;  
Microscribe 3-D digitizer;  
Tissue milling machine;  
Portable low-field MRI scanner

### Director:

**Ken Fischer, Ph.D.**

(Stanford, 1995)

Director, Bioengineering  
Professor, Mechanical  
Engineering



[fischer@ku.edu](mailto:fischer@ku.edu)

Basic Biomechanics  
Bone Biomechanics  
Computer Simulation in Biomechanics

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