

Project Assignment: Critical Review Presentation

Abstract Due: 5 p.m. 9/30/05

Paper Due: 5 p.m. 11/23/05

Oral Presentations: Dec. 2, 5 and 7, 1:55 – 2:45 p.m.

The oral presentation should include a very short summary of the critical review paper. Each speaker will be allotted 10-12 min for the presentation, plus 3-5 min for questions and discussion.

Friday, December 2

Justin Deuerling “Structural Origins of Brittle Behavior in Osteogenesis Imperfecta Bone”

Matthew Landrigan “The Relationship Between Microdamage and Stiffness of Cortical Bone”

Kyle Jones “The Effect of Microstructure on Wear Properties and Biological Activity
of Conventional and Cross-linked UHMWPE”

Monday, December 5

Micah R. Rogel “Influence of Cross-linking on the Viscoelastic Properties
of Collagen: A Review”

Chandan Kumar Mozumdar “Bone Remodeling and Topology Optimization”

Lindsey Nelson “Correlations Between Microarchitecture and Mechanical Strength
in Trabecular Bone Using the Structure Model Index”

Wednesday, December 7

Robert Kane “The Role of Collagen in Determining the Mechanical Properties of Bone”

Gilberto Mejia-Rodriguez “Diamond-Like Amorphous Carbon for Use
as a Biocompatible Coating”

Marissa J. Post “The Effect of Structural Properties on the
Creep Response of Polyetheretherketone”