



ASTM Committee E08 on Fatigue and Fracture Student Paper Competition November 17, 2010 San Antonio, Texas



The Effect of Tensile Prestrain on 2024-T851 Aluminum
Adam Poore, Tennessee Technological University



Laser Scanning Technique for Fatigue Damage Detection of Asphalt Mixtures
Hossein Ajideh, University of California, Irvine



Characterization of Fatigue Crack Growth in Low-Strength Steel
Brett Ziegler, Mississippi State University



Probabilistic Stress Life Curves and Probabilistic Miner's Damage Distribution Development using Testing Data and Simulation Analysis
Juan D. Ocampo, University of Texas at San Antonio



Actuation Fatigue Testing of NITI Shape Memory Alloys
Chris A. Calhoun, Texas A&M University



Stable Tearing Specimen Size Effects in 5083-H321 Aluminum
Elizabeth Frink, Kansas State University



Three-Dimensional Numerical Analysis of Dissipated Energy in Mixed-Mode Fatigue Crack Growth
Casey Davis, University of Tulsa



Mathematical Algorithm to Calculate Crack-Opening Loads from Local Load-Strain Records on Compact Specimens
Jonathan W. Bennett, Mississippi State University



Steady Crack Advance in 3D Small-Scale Yielding
James C. Sobotka, University of Illinois at Urbana-Champaign



2010 Student Competition Winner – Chris Calhoun, Texas A&M University
Calhoun with Committee E08 Chairman, Ravi Chona