8:00 AM  Arrival + Continental Breakfast

8:55 AM  Welcome – Daniel Ennis, Stanford University (310-941-1677, Call/Text for Any Reason)

9:00 AM  Opening Remarks – Martyn Nash, Auckland Bioengineering Institute, New Zealand

9:30 AM  Session 1: Cardiac Flow

Moderator – Daniel Ennis, Stanford University
Towards multi-physics models of cardiac flow and function. Alison Marsden, Stanford University
Exploring hemodynamics in the large vessels using compliant 3D printed phantoms. Judith Zimmermann, Stanford University
Modeling thrombus formation in coronary aneurysms caused by Kawasaki disease. Noelia Gutierrez, Stanford University

10:30 AM  Coffee Break

11:00 AM  Session 2: Valve Function and Modeling

Moderator – Alison Marsden, Stanford University
Mechanical effects of mitraclip on leaflet stress and myocardial strain in functional mitral regurgitation. Mark Ratcliffe, San Francisco Veterans Affairs Medical Center
Ex vivo biomechanical study of neochord anchoring for mitral regurgitation. Annabel Imbrie-Moore, Stanford University
A design-based model of the mitral valve & simulations of patient-specific left-ventricular flow. Alexander Kaiser, Stanford University
Assessment of Bioprosthetic Valve Behavior in Clinical Models of Right Ventricular Outflow Tracts Using Magnetic Resonance Velocimetry. Nicole Schiavone, Stanford University
Realistic simulation of mitraclip treatment for tricuspid regurgitation. Julius Guccione, University of California, San Francisco

12:30 PM  Hosted Lunch

2:00 PM  Session 3: Cardiac Mechanics and Function

Moderator – Julius Guccione, University of California, San Francisco
Biomechanics in Heart Disease. Thiranja Prasad Babarendra Gamage, Auckland Bioengineering Institute, New Zealand
A novel MRI-based finite element modeling method for the prediction of the effect of ischemia on myocardium. Yue Zhang, San Francisco Veterans Affairs Medical Center
Investigating Viscous Effects in a Pumping heart. Oguz Ziya Tikenogullari, Stanford University

3:00 PM  Coffee Break

3:30 PM  Session 4: Cardiac Structure and Motion

Moderator – Martyn Nash, Auckland Bioengineering Institute, New Zealand
Estimating aggregate cardiomyocyte strains by combining DENSE and cDTI. Luigi Perotti, University of Central Florida
Simulating MRI Acquisitions from Synthetic Data for Accuracy Characterization and Training. Michael Loecher, Stanford University
Ex vivo Ventricular Geometry Restoration via 3D Printing. Tyler Cork, Stanford University
Comparison of in vivo and ex vivo Cardiac Microstructural Measurements. Kévin Moulin, Stanford University
Left Ventricular Strain Ischemic Mitral Regurgitation: A Study Using DENSE. Vicky Wang, San Francisco Veterans Affairs Medical Center

5:00 PM  Group Discussion & Closing Remarks

Moderators – Alan Garfinkel, UCLA -and- Luigi Perotti, University of Central Florida

6:00 PM  Light Dinner & Open Discussion