

Session 2: Modeling Multiscale Cardiovascular and Respiratory System Dynamics

August 24-28, 2009 N140 William H. Foege Building

University of Washington, Seattle, WA 98195

	AM1	AM2	PM1	PM2
Monday 8:30 AM - 5:00 PM	Jim Bassingthwaighte : Multiscale Models of Cardiac Data Sets	Gary Raymond: Aspirin: discussion of hypotheses, modeling clearance	Gary Raymond: Compartmental Models ----- Work Time	Jim Bassingthwaighte : Transporters (Demo) ----- Work Time ----- Andreas Schwab: Lecture: Blood Tissue Exchange Processes
Tuesday 8:30 AM - 5:00 PM	Jim Bassingthwaighte : Multiple Indicator Dilution Experiment BTEX Crone Extraction Data ----- Work Time on PDEs	Andreas Schwab: Work time on Blood Tissue Exchange: Goresky Models and JSim equivalents	Joseph Anderson: Modeling Pulmonary Mechanics and Gas Exchange I	Joseph Anderson: Modeling Pulmonary Mechanics and Gas Exchange II
Wednesday 8:30 AM - 5:00 PM	Hong Qian: Stochastic and Deterministic Models I	Hong Qian: Stochastic and Deterministic Models II	Jim Bassingthwaighte : Electrophysiology: Boltzmann,	Eric Shea-Brown: When does feedback destroy the precision of neural spike times? Jim Bassingthwaighte : Beeler-Reuter, Winslow Model
Thursday 8:30 AM - 5:00 PM	Herbert Sauro: Quantitative and Simulation of Metabolism I	Herbert Sauro: Quantitative and Simulation of Metabolism II	Model ADP/ATP Pearson Data constructed by participants I	Continued: Model ADP/ATP Pearson Data constructed by participants II
Friday 8:30 AM - 5:00 PM	Jim Caldwell: rMBF: Regional Myocardial Blood Flow using PET	Jim Caldwell/ Jim Bassingthwaighte : Image Analysis for rMBF, NH3 and Rb using optimization	Jim Bassingthwaighte : Cellular Ion Regulation (Na pump, NaCa exchange).	Jim Bassingthwaighte : Reversal of the Na pump