Joint Engineering and Methodology Subprograms Workshop

October 26-27, 2006

Welcome

Questions, Logistical Issues Susie Bayarri, Donna Pike, TJS

This meeting is followup to a General Workshop held in September at which tentative working groups were formed to study somewhat specific application areas and methodology of general applicability

Emphasis will be on
- Detailed specification of problems of engineering or general methodology as motivated by specific computer models
- Data from physical experiment and/or data from such models.
- Specific implementation issues such as "automatic" prior specifications and MCMC implementations for Bayesian models

Potential problem areas
- Prediction and screening for high dimensional inputs
- Performing hierarchical validation
- Determining the adequacy of GASP emulator--alternatives
- Extrapolation
- Determining the adequacy of GASP emulator, and finding alternatives when appropriate
- Role of design to facilitate any of the above

Discussion, Interaction, Problem Formulation/Solving

Talk 1 Experiment Designs for Model Calibration
Derek Bingham (Simon Fraser University)