

## Tentative List of Problems

- a. Screening for high dimensional inputs (Grant Reinman and Angie Patterson are searching for problems that can be used to illustrate the issues)
- b. Hierarchical Validation (meaning how does one do full-system validation based on a set of sub-system model validations--Laura Swiler is searching for a specific problem)
- c. Prediction/Emulation based on highly correlated output data (for example, reducing the number training data points used to predict to a small, "critical" number of points. How many such points to use and how to choose them?)
- d. Issues of calibration of codes (choice of basis functions for computer output, for physical output?)
- e. Development of metrics for comparing computer and Phy Exp output (must this be done problem specific; finding a formulation that eliminates the confounding of bias function and calibration parameter)

# Agenda

## 1. Introductions

- name, location, background (motivation, application)
- problem areas of interest; other problems of interest
- availability of models/data

## 2. Set Future sessions

- computer model/data presentations

*<http://www.esc.sandia.gov/VCWwebsite/ThermalProblemDescrip.pdf>*

- presentations of key papers (which?)
- discussions of (sub) groups about roadblocks/models (We may end up combining some efforts with Methodology; there is a large overlap between the groups).