

**Materials and Response
Workshop on Fire Growth and Spread on Objects**

Session Summary

Greg Linteris, Chair

After the session, the discussion addressed several themes that serve as an effective summary. These fall under two main categories:

Better material characterization is needed, in particular:

1. Bridging the gap between simple material parameters (such as the heat release capacity) and room-scale modeling.
2. Understanding the ways in which scale and 'real product' effects (including non-homogeneity) in materials affect the parameters that are input to models.
3. Understanding if the heat release capacity is a useful parameter.

Better understanding of the effects of ventilation on material characterization is required, namely:

1. The effect of ventilation on the global material properties (including the gas pyrolysis products and fire-material interactions).
2. The utility of local as compared to global equivalence ratio.
3. Better characterization of the glass fall-out phenomenon and the subsequent changes to the modeling boundary conditions.