## New 'Best Practice' Default Values for MELCOR 2.1 Larry Humphries (Sandia National Labs)

Many of the mechanistic models have been coded with optional adjustable parameters to facilitate uncertainty analysis and sensitivity studies. This allows the analyst to easily address questions of how particular modeling parameters affect the course of a calculated transient. Parameters of this type, as well as other numerical parameters such as convergence criteria and iteration limits, are coded in MELCOR as sensitivity coefficients, which may be modified through optional code input. Default values for these parameters should represent the best value available for general application. In MELCOR users. This presentation examines the justification for modification of several of these updated sensitivity coefficients as well as default values for other variables used by MELCOR.