

Expert Working Group's Terms of Reference:

A review of computer models to aid the design and assessment of IM performance

2017-2019 excerpt

The Expert Working Group is to:

- a) Compile a list of currently available reaction kinetics models (model based, Freeman model); implementation into commercial FE codes, DSC measurements, time to ignition as function of temperature load
- b) Re-evaluate "Temper update"(improvements, capabilities, actual results)
- c) Perform FDS tutorial (software "Fire Dynamics Simulation"; by personnel of BAE Systems, Airbus Safran Launchers).
Round Robin analysis within the EWG, discussion of results, FCO, simple geometry, simple boundary conditions; provide experimental results (heat flux, temperature) for validation; evaluation
- d) Collaboration with IMEMG FCO testing EWG, common EWG meeting, mutual knowledge exchange
- e) Update a gap analysis of the available computer models (i.e. damaged material, foaming, melted material, ageing)
- f) Publish a report with recommendations, which includes the gap analysis and précis's,

Chairman, tba