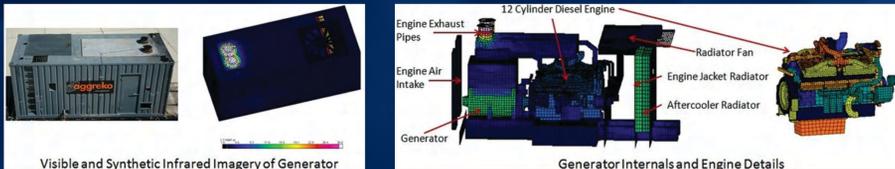




**Integrity
Applications
Incorporated**

Capabilities

- Construction of 3D ground vehicle, aircraft, spacecraft and facility models
- Meshing
- Thermal model and scene creation for active heat sources
- Simulations in MuSES and DIRSIG
- Comparison to actual data



MuSES Modeling & Simulation of 2.5 MW Generator



DIRSIG Modeling & Simulation of a Refinery



US Army Stryker Combination of MuSES and STAR-CCM+

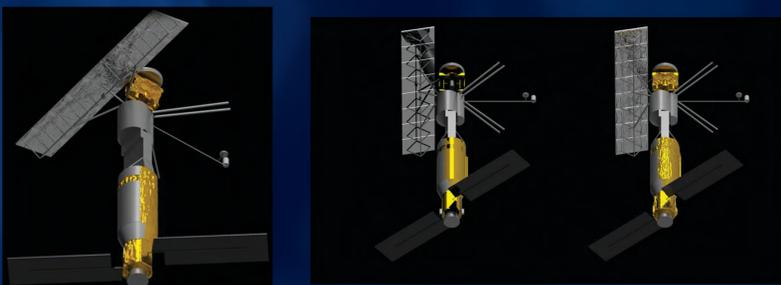
RGB Rendering of 3D Military Transport



FEA Representation of Hood and Cab



Ground Vehicle



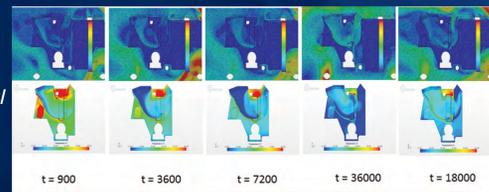
Satellites/Multi-Layer Insulation

Research areas of interest

- Creation of complete scenes with vegetation, DTED, and texture
- Pattern of life studies
- Xpatch SAR image creation
- 3D PDFs and animation fly-throughs
- CFD Enhancements

Interested in supporting the creation of custom synthetic 3D models with high radiometric fidelity

Viewed side by side we can see a correlation between the local air velocity/flow field and air temperature field



STAR-CCM+ CFD Air Velocity (top) Temperatures (bottom)

US Army Stryker Radiator Cross-Section

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