



US DEPARTMENT OF DEFENSE

# BLAST INJURY RESEARCH PROGRAM COORDINATING OFFICE

## Injury Models

### Evaluation of Prototype Body Sensor System for the Integrated Soldier Sensor System Program

Georgia Tech Research Institute (GTRI) and the Injury Biomechanics Division of USAARL collaborated on studies of GTRI's Body Sensor System, developed in support of the PM SPE Integrated Soldier Sensor System program. These efforts include development of Helmet Sensors, Body Sensor System, Physiological Status Monitor, Data Retrieval System, and Open Architecture. USAARL conducted shock tube testing of fixtures instrumented with GTRI pressure sensors and reference instrumentation, in order to obtain a direct comparison. Shock tube tests were performed at several target pressures and testing orientations, including testing of an instrumented Improved Outer Tactical Vest attached to the full upper torso of a Hybrid II Anthropometric Test Device.