

## **MS 4.4: Testing of materials and structures under high strain rate**

### **Organisers**

Daniel Rittel, Patrice Longère

Knowledge of the response of materials and structures under high-loading rate is crucial when it comes to dimensioning structures against accidental overloads or optimizing the production rate of structural parts. This knowledge requires the most accurate and reliable observation possible, in space and time, of the mechanisms of dynamic deformation, damage and rupture. We are interested here in the development of original experimental methods (loading, diagnostics, analysis, post-process, etc.) allowing to access a better understanding and modeling of the mechanisms evoked. The visualization and analysis of dynamic multi-fragmentation, simultaneous high-speed measurement and interpretation of kinematic and thermal fields, digital image correlation, experiment/simulation correlation for shock or impact problems, are examples of topics of interest for this mini-symposium. All material classes and study scales are welcome.