

# On-line slag analysis using LIBS

- **Problem / Opportunity:**
  - **Problem:** time consuming off-site sample characterization
  - **Opportunity:** *in situ* analysis of slag
- **Approach:**
  - Laser-Induced Breakdown Spectroscopy (LIBS) analysis of molten slag
- **Success Defined as:**
  - Accurate and robust real-time measurements of molten slag systems
- **Potential Impact of Success:**
  - Improvement in process efficiency by real-time measurements, resulting in an economic benefit
- **Objectives:**
  - Evaluate the accuracy of the LIBS system for on-line slag analysis
  - Assist industrial pilot scale demonstration
  - Guide towards industrial implementation
- **Deliverables**
  - Meeting reports
  - Robust quantification method(s) for the analysis of slags
  - Guidance towards industrial scale demonstration and implementation

