

TMS 2018
147th Annual Meeting & Exhibition**MARCH 11 – 15, 2018**
PHOENIX, ARIZONA**SUBMIT AN ABSTRACT TO:****PHYSICAL METALLURGY****MECHANICAL CHARACTERISTICS AND APPLICATION PROPERTIES OF METALS AND NON-METALS FOR TECHNOLOGY: AN EPD SYMPOSIUM IN HONOR OF DONATO FIRRAO**

This symposium concentrates on physical and mechanical metallurgy and surface heat treatments, aircraft accidents, fractures, and failure analysis. It also focuses on materials for technological applications such as metals, polymers, ceramics, composites, and amorphous. Focus will be on mechanical characteristics and application properties of metals and non metals usually employed in technology. Bulk and surface transformations due to thermal and thermochemical treatments applied to steels, cast irons, aluminum, and copper alloys will be of interest.

Sessions will be devoted to standard and non-destructive testing methods on materials. Areas of interest include:

- Fe-C stable and metastable phase diagrams
- Technological performance of materials in various uses
- Materials structural modifications in their fabrication cycle
- Corrosion, corrosion-fatigue, metal fatigue, high cycles fatigue (HCF)

This symposium encourages, but does not require, accompanying proceedings papers for each oral presentation, as well as for the poster contributions.

ORGANIZERS

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