

## **Editorial: International Conference on Fatigue Damage of Structural Materials**

The tenth biennial International Conference on Fatigue Damage of Structural Materials was held in Hyannis, Massachusetts from the 21–26 September 2014. This prestigious and long running conference brought together 130 delegates from 28 countries around the world to discuss how to characterize, predict and analyse the fatigue damage of structural materials. The conference was covering following themes:

Structural metals and alloys pertinent to the aerospace, marine, off-shore, power generation and land based transportation industries.

- Novel experimental methods to characterise fatigue damage and crack growth.
- Overload/underload, arbitrary loading sequences, service spectrum loads, combined HCF/LCF.
- Residual stress effects on fatigue damage and crack growth, measurement of internal stresses.
- Extreme environments, including the effects of corrosion, oxidation, abrasion, elevated or cryogenic temperatures.
- Innovative theoretical approaches, computational and analytical methods.
- Life prediction methodologies for structural metals and alloys.
- Fatigue mechanisms in advanced alloys and metallic systems.

This special issue is a collection of 23 out of 54 oral presentations and 67 poster presentations that were selected amongst the numerous abstracts proposed to be presented into 15 single oral sessions and 3 poster sessions.

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