

# 1st Workshop on Thermodynamics of Fatigue Process

June 14, 2023 - online

Period (CET zone)	Presenter	Topic
14:00-14:10	Jan Papuga	Welcome
14:10-14:30	Michael M. Khonsari	Science of Degradation
14:30-15:00	Jia Huang	Fatigue energy dissipation behavior and life prediction of carbon fiber reinforced composite materials
15:00-15:30	Giovanni Meneghetti	Intrinsic dissipation and fatigue analysis of engineering materials and components
15:30-15:45		<i>Coffee break: Serve yourself :-)</i>
15:45-16:15	Zhifeng Yan	Fatigue Life Prediction of AZ31B Magnesium Alloy Based on Energy Analysis
16:15-16:45	Lakshmana Rao & Noushad Bin Jamal	Modeling Low Cycle Fatigue Life in Ti-6Al-4V alloy: A Unified Mechanics Theory -based Approach
16:45-17:05	Luca Santoro, Raffaella Sesana & Francesca Curà	Dissipative and thermal aspects in additive-manufactured steel
17:05-17:25	Francesca Curà, Luca Corsaro, Raffaella Sesana	Active thermography for residual stress characterisation in gears
17:25-18:00		<i>Coffee break: Serve yourself :-)</i>
18:00-18:30	Cemal Basaran	Fatigue Life Prediction without Curve-Fitting With Unified Mechanics Theory
18:30-19:00	Jan Papuga & Martin Matušů	Dissimilar thermal response to cyclic loading of two metallic materials
19:00-	Workshop participants	Brainstorming what next