



## SAMCE 2021 | Fall Series

### Modeling and Simulation

November 16 | 15:00 – 16:15

### Program Online Event

#### 15.00 UNITE



Welcome & Introduction

#### 15.05 INSPIRE



A visionary keynote to present the bigger picture and ask: what if?!

*Computational design and discovery of new processing routes for advanced manufacturing*

[Vladyslav Turlo](#) | Empa

#### 15.20 CONNECT



Connect with scientists to collaborate and solve challenges they are facing.

*Parametric Design and Additive Manufacturing of Metallic Cellular Lattices for Recoverable Energy Absorption*

[Ali Jafarabadi](#) | Empa

*Modeling and Simulation of the Laser Powder Bed Fusion process*

[Oliver Boolakee](#) | ETH Zurich

*Part-scale simulation of residual stress and distortion in LPBF process*

[Patrik Markovic](#) | Empa

#### 15.35 DISCUSS



Small group discussions about key success factors of technological breakthroughs led by moderators:

[Christian Leinenbach](#) | Empa

[Kaspar Löffel](#) | FHNW

[David Kammer](#) | ETH Zurich

[Ehsan Hosseini](#) | Empa

[Laura De Lorenzis](#) | ETH Zurich

#### 15.55 IGNITE



Young investigators show how they cross borders & enter new territory.

*Multiphysics Simulation and Modeling of Powder Coating Processes*

[Gernot Boiger](#) | ZHAW

*Modelling Extreme Deformation in Truss Metamaterials*

[Helen le Clézio](#) | ETH Zurich

*Process Simulation for Distortion Prediction: Material Data and Calibration*

[Thomas Mayer](#) | ZHAW

#### 16.10 CONCLUDE



Closing & Reserve

#### 16.15 End