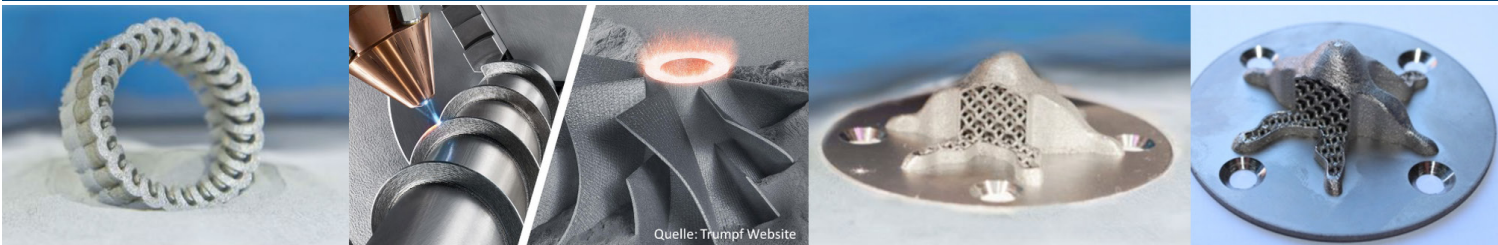


32nd International SAOT Workshop

Additive Manufacturing – Experimental process development
December 2-3, 2019



Workshop Chair

Prof. Dr.-Ing. Michael Schmidt

Local Organizing Committee

M. Sc. Florian Huber

M. Sc. Richard Rothfelder

Dr. Johannes Knorr

Martina Nachreiner



erlangen graduate school in
advanced optical technologies

Program

Monday, December 2, 2019

- 08:30-08:50 Registration
- 08:50-09:00 **Schmidt, Michael** - Opening Remarks
- 09:00-10:00 **Graf, Benjamin** (Fraunhofer-Institut für Produktionsanlagen und Konstruktionstechnik, Germany)
"Development and evaluation of build-up strategies for 3D laser metal deposition"

10:00-10:30 Coffee Break

- 10:30-11:30 **Toyserkani, Ehsan** (University of Waterloo, Canada)
"Integrated statistical/experimental methodologies for rapid and cost-effective optimization of process parameters in laser powder-bed fusion"
- 11:30-12:30 **Brückner, Frank** (Fraunhofer-Institut für Werkstoff- und Strahltechnik, Germany)
"Fabrication of high performance parts by Laser-based Additive Manufacturing"

12:30-13:30 Lunch Break

- 13:30-14:30 **Colosimo, Bianca Maria** (Politecnico di Milano, Italy)
"In-situ monitoring of additive manufacturing: opportunities and challenges"
- 14:30-15:30 **Exner, Horst** (Hochschule Mittweida, Germany)
Title to be announced

Evening program - Trip to Nürnberg

- 16:00 Departure to Nürnberg (bus will start at workshop venue)
- 16:30 Guided city tour and visit of the 'Christkindlmarkt'
- 19:00 Dinner at the 'Heilig-Geist-Spital'
- 21:30 Return to Erlangen (bus will start at 'Vestnertorgraben')
- 22:00 Arrival at workshop venue

Tuesday, December 3, 2019

08:45-09:45 **Drummer, Dietmar** (Friedrich-Alexander Universität
Erlangen-Nürnberg, Germany)
Title to be announced

09:45-10:15 Coffee Break

10:15-11:15 **Schmidt, Michael** (Friedrich-Alexander Universität
Erlangen-Nürnberg, Germany)
“Spatial and temporal Laser Beam Modulation – Influence on the
laser matter interaction”

11:15-12:15 **Drezet, Jean-Marie** (Ecole Polytechnique Fédérale
de Lausanne, Switzerland)
“Hot tearing: a detrimental solidification defect”

12:15-13:15 Lunch Break

13:15-14:15 **Heinrich, Andreas** (Zentrum für Optische Technologien –
Aalen University, Germany)
“Additive manufacturing of optics – limit and potential”

14:15-15:15 **Wegener, Konrad** (ETH Zürich, Switzerland)
Title to be announced

15:15 Guided Laboratory Tour

Contact:

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Workshop hotline (December 2-3, 2019):

+49 (0)172 / 6182798

Workshop Venue:

Institute of Photonic Technologies (LPT)

Konrad-Zuse-Straße 3/5

91052 Erlangen

