





EUROPEAN SUMMER UNIVERSITY ADDITIVE MANUFACTURING

22-25 AUGUST 2017



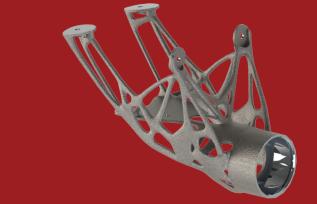
EUROPEAN SUMMER UNIVERSITY ADDITIVE MANUFACTURING

DRESDEN, 22-25 AUGUST 2017

The Chair of Powder Metallurgy and Composite Materials of the Technical University of Dresden in cooperation with the Fraunhofer Institute for Manufacturing Technology and Advanced Materials is staging the first issue of the European Summer University Additive Manufacturing. This 4-day event provides profound insights into the topic of Additive Manufacturing with a focus on metal parts. In addition to lectures given by prominent experts, it includes plant and institute visits as well as practical hands-on exercises. Upon passing a short final written exam, a certificate of successful participation will be issued to the participants.

Participation both from industry and academia is encouraged. The Summer University will be held in English and is suited for participants with no or limited knowledge of Additive Manufacturing who wish to gain quick and thorough insights into the topic. The number of participants is limited, and a few slots will be provided for outstanding bachelor or master students at no fee based on a short application. For all other participants, a fee of $\leq 1,395$,- will apply (including coffee breaks, lunches and a social evening).

We would be delighted to welcome you in Dresden for this unique event. Please register with the registration form included. Also for student applications or further information, you are welcome to contact us under the contact details given.



PROGRAM

19:00 **Self-study**

TUESDAY, 22 AUGUST 2017

08:30	General introduction to Additive Manufacturing of metals, ceramics, and polymers Prof. DrIng. Bernd Kieback, TU Dresden/Fraunhofer IFAI
10:00	Coffee break
10:15	Design principles: from CAD to process DiplIng. Michael Süß, TU Dresden
11:45	Lunch break
12:45	Electron Beam Melting (EBM) Drlng. Thomas Weißgärber, Fraunhofer IFAM
14:15	Coffee break
14:45	Plant / institute visit

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PROGRAM

WEDNESDAY, 23 AUGUST 2017

08:30 Selective Laser Melting (SLM)

	DrIng. Bernhard Müller, Fraunhofer IWU
10:00	Coffee break
10:15	Solid-state Additive Manufacturing methods DrIng. Kay Reuter, Fraunhofer IFAM
11:45	Lunch break
12:45	Case studies for hands-on workshops Dr. rer. nat. Burghardt Klöden, Fraunhofer IFAM DiplIng. Sebastian Riecker, Fraunhofer IFAM
14:15	Coffee break
14:45	Hands-on workshop Electron Beam Melting & Fused Filament Fabrication
19:00	Social event in the city of Dresden



PROGRAM

19:00 **Self-study**

THURSDAY, 24 AUGUST 2017

08:30	Hybrid Technologies in Additive Manufacturing Prof. Drlng. Frank Brückner, Fraunhofer IWS
10:00	Coffee break
10:15	Metal powders for AM – Properties and characterization DrIng. Silvia Vock, Fraunhofer IFAM
11:45	Lunch break
12:45	Industrial case studies
14:15	Coffee break
14:45	Lab work: powder characterization

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FRIDAY, 25 AUGUST 2017

08:30	Economics, social and legal aspects of Additive
	Manufacturing
	DrIng. Olaf Andersen, Fraunhofer IFAM

10:00 Coffee break

10:15 **Exam (60 min)**

11:45 Lunch break

12:45 Certificates and farewell

Prof. Dr.-Ing. Bernd Kieback, TU Dresden/Fraunhofer IFAM

CONDITIONS OF PARTICIPATION

The participation fee of 1,395.00 € includes coffee breaks, lunches as well as a social evening. With the confirmation of registration you will receive an invoice. Upon passing a short final written exam, you will receive a certificate of successful participation.



Registration European Summer University Additive Manufacturing

22-25 August 2017

at Fraunhofer IFAM Dresden Winterbergstrasse 28 I 01277 Dresden I Germany

itle, Surname, First Name
Company/Organisation
Address
hone
ax
-Mail
Pate, Signature

Please register until 7 August 2017.

Fax: +49 (0)351 2537 399

E-Mail: Cornelia.Mueller@ifam-dd.fraunhofer.de

With my registration I agree with the electronic storage of my data (incl. the use for future invitations and information).

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ORGANISER

Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM, Branch Lab Dresden

Technische Universität Dresden, Institute of Materials Science IfWW

CONTACT & VENUE

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