

Summer School AMaTUC

Additive Manufacturing trends, applications and education

Location: TU Cluj-Napoca, B-dul Muncii 103-105, Ground Floor (main entrance)

Period: 10-14 September 2018

| Monday 10 September | Tuesday 11 September | Wednesday 12 September | Thursday 13 September | Friday 14 September |
|--|-------------------------------|-------------------------------------|---|---|
| Registration 9:30 – 9:45 | Lecture 3 9:30 – 10:00 | Lecture 7 9:30 – 10:00 | Analyze the SLS assemblies | Optional visit to Transilvania region |
| Introduction 9:45 – 10:30 | Lecture 4 10:00 – 10:30 | Lecture 8 10:00 – 10:30 | Lecture 11 10:00 – 10:30 | |
| Coffee break 10:30 – 10:45 | Coffee break 10:30 – 10:45 | Coffee break 10:30 – 10:45 | Coffee break 10:30 – 10:45 | |
| Lecture 1 10:45–11:15 | Lecture 5 10:45–11:15 | Lecture 9 10:45–11:15 | Course and practice evaluation | |
| Lecture 2 11:15–11:45 | Lecture 6 11:15–11:45 | Lecture 10 11:15–11:45 | | |
| 12–13:30 Lunch | 12 – 13:30 Lunch | 12 – 13:30 Lunch | 12 – 13:30 Lunch | |
| CAD Modeling 14:00 - 15:30 | CAD Modeling 14:00 - 15:30 | AMaTUC meeting 14:00 - 16:30 | Visit the Guhring company 14:00 - 16:30 | |
| Visit TUC Labs 15:30 - 17:00 | CAD Modeling 15:30 - 17:00 | Visit – Cluj sites 14:00 - 16:30 | | |
| Free time 17:00 - 19:00 | Free time 17:00 - 19:00 | Free time 17:00 - 19:00 | Free time 17:00 - 19:00 | |
| Dinner 19:30 | Dinner 19:30 | Dinner 19:30 | Dinner 19:30 | |

Introduction to the AMaTUC Summer School: Prof. Nicolae Balci (TUC)

Lecture 1: Prof. Ian Campbell (LbU): Hands-on CAD modelling/ Case study on AM in digital heritage

Lecture 2: Prof. Richard Bibb (LbU): Case study - AM in medical products (wrist splint)

Lecture 3: Mr. Flavien Massi (Intelightsia): Overview of the EU projects opportunities. Remaining H2020 calls for Additive Manufacturing

Lecture 4: Ms. Laura Thurn (ACUAS): AM Education/Training methods

Lecture 5: Prof. Russ Marshall (LbU): CAD modelling of the human form (using SAMMIE CAD)

Lecture 6: Dr. Patrick Pradel (LbU): Design for AM

Lecture 7: Dr. Julia Kessler (ACUAS): Lattice structure benefits for SLM metal parts

Lecture 8: Dr. James Gardner (LbU): 5-axis material extrusion AM

Lecture 9: Dr. Xiaoxiao Han (LbU): Vat Photopolymerization

Lecture 10: Prof. Andreas Gebhardt (ACUAS): Industrial Applications of AM

Lecture 11: Ms. Franziska Zaunig (LbU): Quality Assurance for AM

www.amatuc.com