

# Curious today – Partner tomorrow?



## Additive Manufacturing

### 15:30 Tune in, coffee and greetings

Grab a cup of coffee. Find a chair and tune in to the ZOOM meeting. Greetings will be immediately prior to four o'clock.

### 16:00 Researchers corner

Dr. [Saeed Farahani](#), Prof. [Christian Schlette](#), Asst. Prof. [Henrik Blichfeldt](#), Asst. Prof. [Roberto Naboni](#), Asst. Prof. [Alireza Daman Pak Moghaddam](#), and Eng. [Andrei-Alexandru Popa](#) on: Technologies and applications, Large concrete parts, 4D Printing & Meta Materials, Advanced applications and Adoption of Additive Manufacturing in the organizations.

### 17:15 How to reach out?

TEK Innovation is your "one-stop" entry point to SDU researchers and students for future partnerships.

### 17:20 Partners corner

[AddiFab](#), a Danish 3D-printing pioneer, and inventor of [Freeform Injection Molding](#) by CEO, [Lasse Staal](#)

### 17:40 Guided tour

[AddiFab](#) facilities in Jyllinge

### 18:00 Networking

Beers and popcorn for the PHYSICAL participants  
Break-out sessions for the CYBER participants

**JOIN US!** Online, Physically at SDU, or at any local satellite event, on Oct. 27th 2020



RoboCluster er finansieret af Uddannelses- og Forskningsministeriet sammen med Region Syddanmark.

# Additive Manufacturing

## **Technologies and applications, by Dr. [Saeed Farahani](#), Assc. Prof. [Henrik Blichfeldt](#)**

The existing printing technologies and their applications as well as AM technology usage in a collaborative way using a “Digital Backbone” platform.

## **Large concrete parts, by Prof. [Christian Schlette](#)**

Field report from one extreme application, namely 3D printing of concrete of towers in the energy sector.

In [N3XTCON](#) project, [COBOD International A/S](#) and SDU work closely to develop Digital Twins of COBOD’s commercial printing systems in the field.

## **[CREATE](#) with Computational Design for Additive Manufacturing, by Asst. Prof. [Roberto Naboni](#)**

The use of computational design tools allow to maximize the benefits of Additive Manufacturing and achieve higher levels of material performance and design efficiency. The presentation will showcase projects from SDU CREATE, discussing large-scale 3D printing with different material systems

## **4D Printing & Meta Materials , by Asst. Prof. [Alireza Daman Pak Moghaddam](#)**

3D Printing of smart materials ([4D Printing](#)) to fabricate adaptive metamaterials may create a new generation of collaborative, and other robotic devices.

## **Advanced applications, by Eng. [Andrei-Alexandru Popa](#)**

By use of complex materials and novel postprocessing, low-cost recyclable mechatronic products can be produced. Their applications, linked with their topology optimized designs and embedded sensors, span from low digital signals, to wearable electronics and collaborative robot prototypes.

## **Adoption of Additive Manufacturing in the Organization, by Dr. [Saeed Farahani](#), Assc. Prof. [Henrik Blichfeldt](#)**

How companies can adopt AM in three areas including rapid prototyping, production tools end components manufacturing.

## **Overview of [Freeform Injection Molding \(FIM\)](#), by CEO, [Lasse Staal](#)**

FIM, an agile manufacturing platform, that combines the best from 3D-printing and injection molding to deliver superior product launch acceleration.

FIM is highly suitable in terms of materials and mass customization, as well as for the rapid manufacturing of small series of complex spare parts.

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