

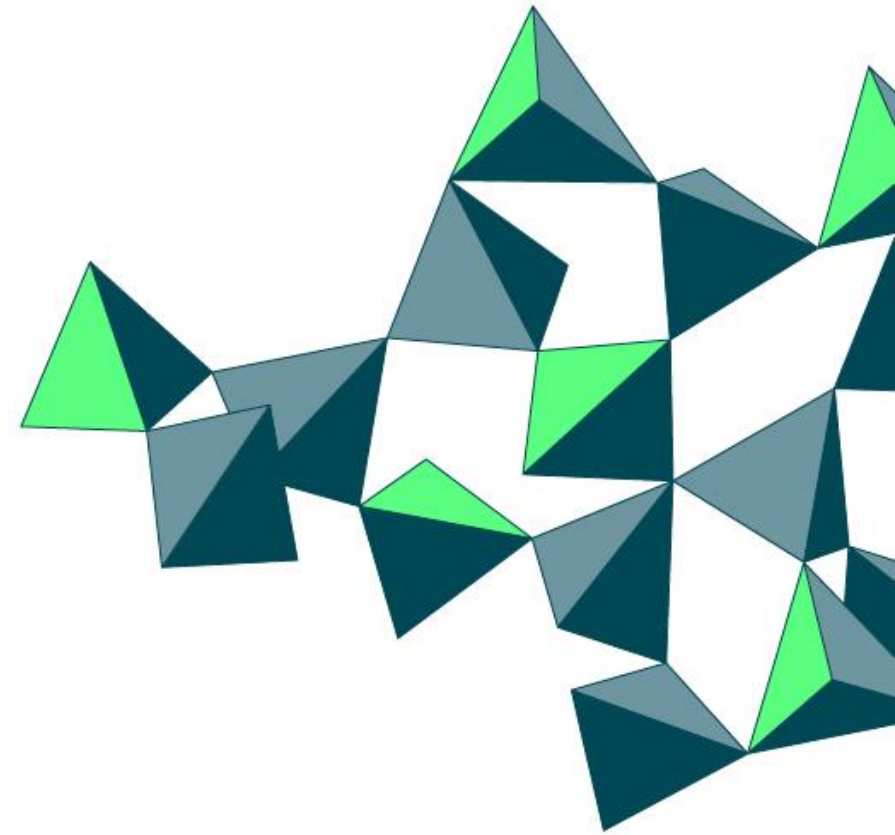


# ACEO® Open Print Lab

Program Guide

Version: March 2019

WACKER Confidential



ACEO® is a registered trademark of Wacker Chemie AG.

# Your Benefits



Define individual workshop goals for you and/or your team



Learn about the unique ACEO<sup>®</sup> materials and technology



Improve your knowledge with hands-on experience



Print customized parts with your own design

# ACEO® Open Print Lab – Program Classroom Trainings, Theory

3D printing with silicones

## Additive Manufacturing

Welcome to a new world

- ▶ Technologies
- ▶ Markets
- ▶ Applications

## Silicone Elastomers

A chemical introduction for beginners

- ▶ Chemical principles
- ▶ Properties
- ▶ Applications

## Freedom of Design

Explore novel territories with integration of functionalities and lattice structures

- ▶ Step 1: Integration of functionalities
- ▶ Step 2: How to design lattices and inner structures
- ▶ Step 3: Metamaterials

## 3D Printing in Healthcare

Discover material properties and suitable applications

- ▶ Introduction to 3D Printing in Healthcare
- ▶ Case 1: Biomodeling – from medical imaging to 3D printed parts
- ▶ Case 2: Individualization
- ▶ Material properties

# ACEO® Open Print Lab – Program Printing Trainings, Hands-On 1/2

3D printing with silicones

## Designs

We provide a selection of different designs for our printing seminars. However, we encourage you to bring along your own part designs. We believe that the learning effect will be much higher when discussing your applications.

## Shipment

The 3D printed silicone parts will be shipped to you after your session. As part of our standardized processes, all parts need to be washed and post-cured

## Get Started

A basic introduction to understand the principles of the technology

- ▶ Learn fundamentals of part design
- ▶ Print first simple parts and move on to real 3D parts with support material
- ▶ Compare different printing strategies

## Advanced Design Thinking

Align technology, process and design for optimal results

- ▶ Compare and evaluate different printing strategies
- ▶ Adapt your design directly and re-print it
- ▶ Integrate functionalities or lattices with support by our experts



# ACEO® Open Print Lab – Program Printing Trainings, Hands-On 2/2

3D printing with silicones

## Feel the Difference

Compare different silicone grades and combine them with designs

- ▶ Test print different durometers or colors
- ▶ Get advice on special material development by our material experts
- ▶ Experience novel effects with 3D+: Integration of material, technology and design

## Imagine

Your design – our technology & guidance – your part

- ▶ Get a short introduction among experts
- ▶ Print whatever you have in mind with our support



# Quality Based on Experience

## Professional Facilitators

We offer an experienced team with disciplines that range from material and 3D design expertise, to engineering capabilities, advanced software skills and quality management. We will customize an agenda for your time at the ACEO® Open Print Lab – facilitated by our team's competences



## About ACEO®'s Open Print Labs

The European Open Print Lab was the first of its kind. It opened in 2016 and is located at the ACEO® Campus in Burghausen, Germany, the ACEO® center of technology. The North American Open Print Lab opened in March 2019 and is located in Ann Arbor, MI, USA.

Both labs leverage WACKER's in-depth knowledge on 70 years of expertise in silicones. WACKER has a reputation of sharing knowledge with customers through the WACKER Academy network

## Schedule (illustrative)



9:00 am

4:00 pm



9:00 am

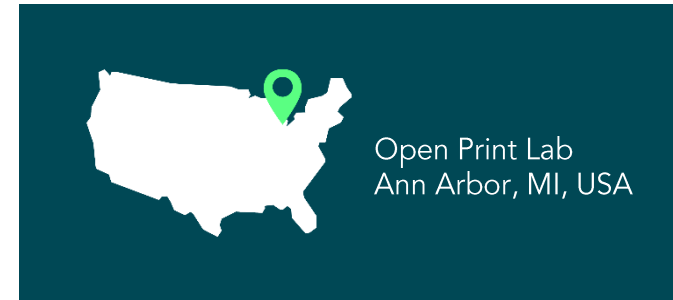
4:00 pm

# Book a Session

Please use the form on [aceo3d.com](http://aceo3d.com)



Open Print Lab  
Burghausen, Germany



Open Print Lab  
Ann Arbor, MI, USA

Our trainings are customized to your specific needs. After registration, we develop an agenda focusing on the desired outcome. The below list of theoretical and hands-on trainings gives you an idea of typical workshop modules.