



# PRIMES WORKSHOP

Sept. 16-17, 2020

## PROGRAM OVERVIEW

Wednesday, 16.09.2020

**09:00 Registration**

**09:20 Welcome**

### Additive Manufacturing and its Measuring Tools

**09:30 Title TBA**

Christian Dicken, Concept Laser

**10:00 Quality assurance in Additive Manufacturing**

Dr. Kai Schimanski, Premium AEROTEC

**10:30 Characterization of scanner based laser applications**

Stephan Holesch, PRIMES

**11:00 Break**

### Beam Distribution and the Impact on Processing Results

**11:30 Cutting performance improvements due to variable beam profile**

Michael Duka, SPI Lasers

**12:00 Advantages of adjustable ring mode fiber lasers**

Michael Jess, Coherent

**12:30 Variable beam profiles – measuring and impact on cutting and welding applications**

Klaus Hänsel, Hyperbel Laser Technology

**13:00 Lunch break**

Thursday, 17.09.2020

**08:30 Registration**

### Beam Monitoring in Automated Production

**09:00 Tool monitoring in laser material processing**  
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**09:30 Turbine repair**

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**10:00 Measuring the focus position in real time – fast and easy**

Dr. Johannes Roßnagel, PRIMES

**10:30 Break**

**11:00 Online focus monitoring**

Ruben Hartwig, PRIMES and industrial partner

### Laser Material Processing and Beam Characterization at different Wavelengths

**11:45 High-power, green-wavelength disk lasers for copper welding applications**

Dr. Sebastian Zaske, TRUMPF Laser

**12:15 Measuring laser power at different wavelengths**

Dr. Volker Brandl, PRIMES

**13:00 Lunch break**

## MORE LIVE EXPERIENCE IN INTERACTIVE LAB SESSIONS:

Get together, discuss and try out in our Open Labs (14:00-17:00h)

- Characterization of SLM machine
- Online monitoring of the beam
- Focus diagnostics at highest power densities
- Automated acceptance test in laser production
- Software tools to optimize beam diagnostics
- Beam monitoring in real production environment
- Fast detection of the focus shift

16.09.2020, 19:00h

NETWORKING DINNER, RESTAURANT ALTHAUS / HOTEL ABSOLUTE, GERNSHEIM