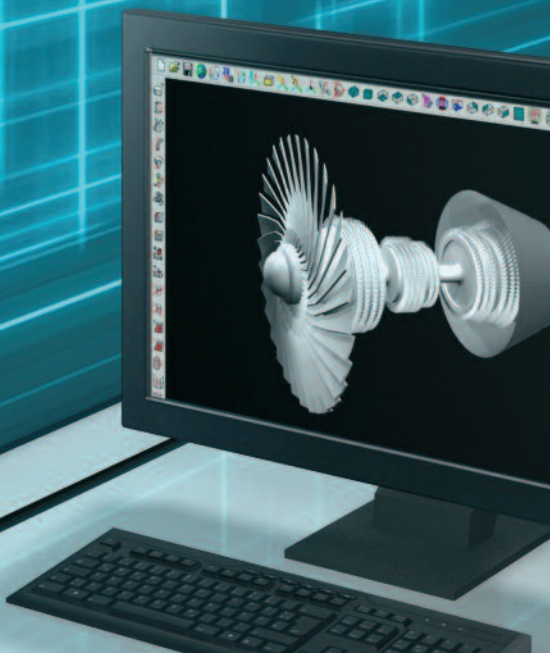


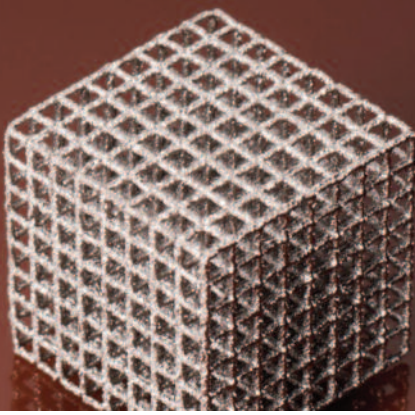
FRAUNHOFER-INSTITUT FÜR
WERKSTOFF- UND STRAHLTECHNIK IWS

INTERNATIONAL SYMPOSIUM ON ADDITIVE MANUFACTURING

FEBRUARY 25 - 26, 2015 IN DRESDEN

PROGRAM





Ladies and Gentlemen,

Additive manufacturing is currently paving its way into industrial applications. With an overwhelming potential to overcome some of the limits of conventional manufacturing technologies, additive manufacturing is not only able to fulfil the end users' increasing demand for high complexity parts but also opens exciting possibilities to integrate new functionalities, to combine different materials and to apply revolutionary component designs.

The symposium brings together the world leading experts in additive manufacturing and newcomers interested in this fascinating and vibrant field. Ample time for discussion and networking is making this event a great marketplace for new ideas and business in additive manufacturing.

Do not miss this opportunity!

Eckhard Beyer
Executive Director
Fraunhofer IWS Dresden

Christoph Leyens
Head of Department Thermal Coating
and Additive Manufacturing

PROGRAM DAY 1

February 25, 2015

08:30 Registration

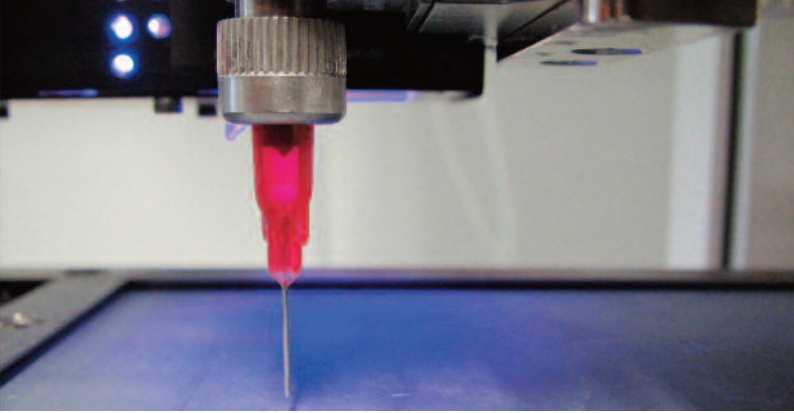
Opening Day 1

- 09:00 Opening
*Eckhard Beyer, Christoph Leyens,
Fraunhofer IWS, Dresden, Germany*
- 09:20 The future of additive manufacturing in
industry - a GE perspective
*James Sears,
General Electric, USA*
- 09:50 Additive manufacturing in Airbus Group:
state of the art and challenges
*Claudio Dalle Donne,
Airbus, Germany*
- 10:20 Coffee break with technical exhibition

PROGRAM DAY 1

Materials and testing

- 11:00 Material property improvement through interpass cold work in titanium and aluminium
*Stewart Williams,
Cranfield University, United Kingdom*
- 11:20 Study of selective laser melting of non-weldable Ni-base superalloy on a single crystal Ni-base superalloy
*Jeroen Risse,
Fraunhofer ILT, Germany*
- 11:40 Potential new multimaterial systems for aircraft engines
*Björn Ulrichsohn,
Rolls-Royce, Germany*
- 12:00 Materials and applications of additive manufacturing in the aerospace industry
*Malte Fröbel,
INTA, Instituto Nacional de Tecnica Aeroespacial,
Spain*
- 12:20 Industrial production of micro metal parts
*Joachim Göbner,
3D MicroPrint, Germany*
- 12:40 Lunch break with technical exhibition



Advanced processing and technologies I

- 13:30 Light engineering by bionic additive manufacturing
*Claus Emmelmann,
Laser Zentrum Nord GmbH, Hamburg, Germany*
- 13:50 A European Space Agency perspective on additive manufacturing for space applications
*Tomasso Ghidini,
European Space Agency, The Netherlands*
- 14:10 Process development for additive series manufacturing
*Michael Zaeh,
Technical University of Munich, Germany*
- 14:30 Additive manufacturing in finished part quality by means of hybrid processing
*Friedemann Lell,
SAUER DMG Mori, Germany*
- 14:50 Coffee break with technical exhibition

PROGRAM DAY 1



Advanced Processing and Technologies II

- 15:30 Additive manufacturing with EBM - from process to production
Patrik Ohldin,
Arcam, Sweden
- 15:50 Challenges & best practices to implement additive manufacturing for production
Güngör Kara,
EOS GmbH, Germany
- 16:10 Additive manufacturing of electrical functionalities
Ines Dani,
Fraunhofer IWS, Germany
- 16:30 High-precision dispensing: an alternative technology to screen printing
Daniela Pfab,
SITEC, Germany
- 19:00 Symposium dinner and come together at the Dresden Transport Museum



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PROGRAM DAY 2

February 26, 2015

Opening Day 2

09:00 The future of additive manufacturing in Australia
Milan Brandt,
RMIT University, Australia

Process Control and Quality

09:30 Less residual stresses in laser beam melting by
investigating on supports, powder layer proper
ties, powder preheating and scanning strategies
Gerd Witt,
RTC Duisburg, Germany

09:50 Strategy towards tailored high-performance
metal materials for additive manufacturing
Michael Schmidt,
Bayrisches Laserzentrum, Germany

10:10 Additive manufacturing for large gas turbine
applications: opportunities and challenges
Sebastian Piegert,
Siemens, Germany

10:30 Development of additive manufacturing in Thales -
mechanical characterizations on aluminium and
titanium specimens
Yannick Cadoret,
Thales, France

10:50 Coffee break with technical exhibition

PROGRAM DAY 2

Applications

- 11:20 Industrialization of additive manufacturing for space parts - hurdles and challenges
Steffen Beyer,
Astrium, Germany
- 11:40 Additive manufacturing - potentials and limits
Frank Brückner,
Fraunhofer IWS, Germany
- 12:00 Additive manufacturing and law: copyright, patent and liability
Jürgen Ensthaler,
Technical University of Berlin, Germany
- 12:20 Additive manufacturing in manufacturing and serial production
Zeljko Pazin,
EFFRA, European Factories of the Future Research Association, Belgium
- 12:40 Lunch break with technical exhibition
- 13:45 Panel discussion: additive manufacturing - possibilities beyond imagination?!**
- 16:00 Closing remarks
Christoph Leyens,
Fraunhofer IWS, Dresden, Germany



ORGANIZATION

Venue

Fraunhofer IWS Dresden
01277 Dresden, Winterbergstr. 28
www.iws.fraunhofer.de

Language: English

Fee: Industry **390 €**
Academia **300 €**
(payable on receipt of the invoice)

The fee includes conference documents and refreshments, as well as the participation in the evening reception.

Registration deadline: February 13, 2015

(Cancellation of registration is possible by February 13, 2015. After this date the full costs will be charged.)

Accommodation

We have arranged call allocations in a few hotels. Please visit www.iws.fraunhofer.de/isam/hotels.

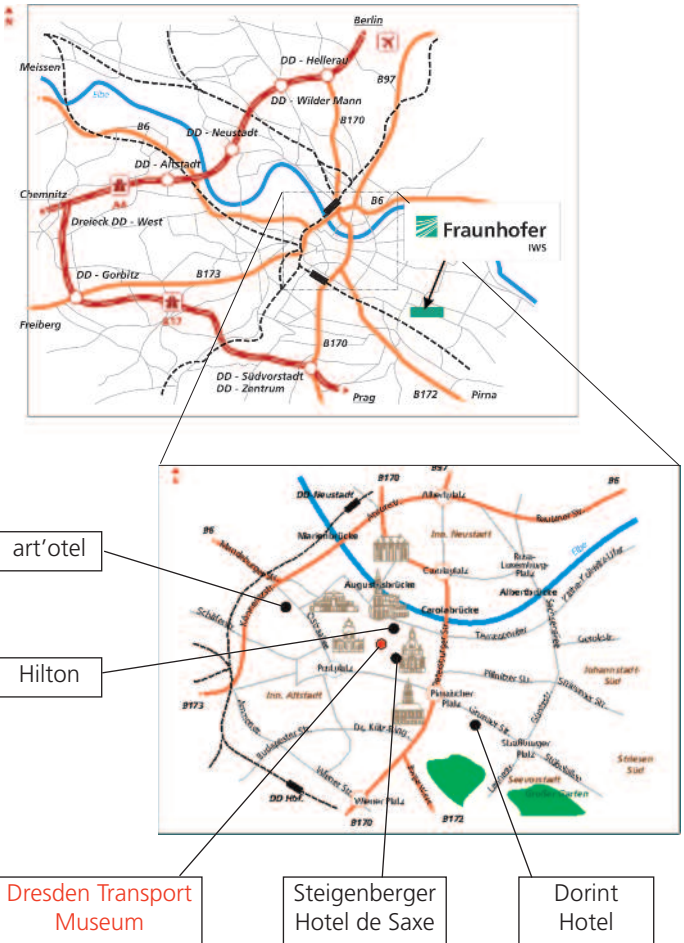
Contact

Dr. Elena Lopez
Phone +49 351 83391-3296, Fax +49 351 83391-3300
elena.lopez@iws.fraunhofer.de

www.iws.fraunhofer.de/isam

ORGANIZATION

Directions



**International Symposium »Additive Manufacturing«
February 25 - 26, 2015**

Fraunhofer IWS Dresden, Winterbergstr. 28, 01277 Dresden, Germany

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Participation in the evening reception on February 25

yes no

With my registration I agree with the potential publication of
photographs taken during the event and with the electronic storage
of my address (incl. the use of my address for future invitations).

Registration (in block letters)

Last name

First name

Company / Institution

Billing address

Phone / Fax

E-mail

Place / Date

Signature

Firm stamp

**International Symposium
»Additive Manufacturing«**

February 25 - 26, 2015

Fraunhofer-Institut
für Werkstoff- und Strahltechnik IWS

Dr. Elena Lopez
Winterbergstr. 28
01277 Dresden
Germany



Fraunhofer
IWS

Please mail or fax
Fax: +49 351 83391-3300