



Symposium on
**ADDITIVE MANUFACTURING AND
INNOVATIVE TECHNOLOGIES 2017**

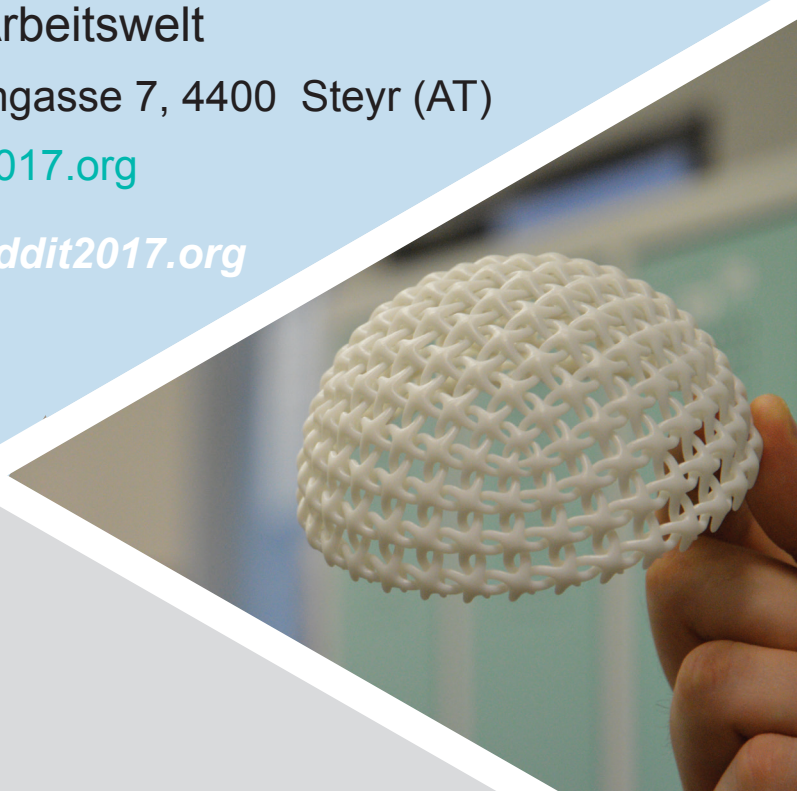
September 28 – 29, 2017

Museum Arbeitswelt

Wehrgrabengasse 7, 4400 Steyr (AT)

www.addit2017.org

contact@addit2017.org



 **PROFACTOR®**

JKU
JOHANNES KEPLER
UNIVERSITY LINZ

iPPE

Add+it 2017

The Add+it 2017 offers a platform for science and industry to discuss topics all across additive manufacturing and innovative technologies. International experts from more than ten different countries will share their knowledge in several talks and 2 parallel sessions with 6 topics to show what additive manufacturing offers today and what can be expected in the future. Scientific talks on Thursday, September 28 are followed by the symposium dinner held at the "Orangerie".

On Friday, September 29, plenary lectures and time to networking will complete the Add+it 2017 program. The parallel sessions will provide opportunities to share ideas and discuss technical details related to additive manufacturing. On Friday afternoon a farewell lunch will offer room for dialogue between the Add+it attendees – take the opportunity to meet experts from R&D and industry!

"Nature of Innovation"

The Add+it 2017 takes place during the current innovation process in Upper Austria, named "Nature of Innovation". The idea behind this process is to combine the core characteristics of the region: Nature and Innovation. Within this innovation process several events will be organized, such as a Mini Maker Faire, conferences and more...
www.nature-of-innovation.com

KEYNOTE SPEAKERS*



Dr. R. Assaker



Dr. Ing. B. Dybala



Dr. M. Cioffi



Dr.-Ing. B. Herman



C. Malça



Prof. Dr.-Ing. M. Meboldt



T. Mulholland



K. Schlichter



D. Siegel



T. Willinger

SESSION SPEAKERS*



Ph. Czapka



G. Dämmer



Dr. T. Fischinger



Dr. P. Galliker



D. Graf



Dr. S. Gruber



Dr. A. Haider



M. Haslinger



Prof. Dr. B. Heiden



Dr. D. Holzinger



M. Kaltenbrunner



L. Kuna PhD



B. Mayrhofer



Dr. G. Mittermanskogler



Ass. Prof. F. Moscato



Dr. M. Mühberger



Dr. M. Pfaffinger



Dr. M. Reiter



R. Schumacher



Dr. O. Sheikhnajad



M. Spörk



A. Steinwender



Prof. Dr. D. Suess



Dr. F. de la Vega



Ch. Wiednig



Dr. J. Zimmer



Dr. V. Zöllmer

PROGRAM

Thursday,
September 28, 2017

11:30 Registration

12:30 **Opening, welcome & agenda**

Prof. Dr. Z. Major, JKU IPPE | G. Hackl, Major of the city of Steyr | I. Hegny, bmvit | T. Fischinger, PROFACTOR

12:40 **Value creation with AM in serial products and services**

Prof. Dr.-Ing. Mirko Meboldt, ETH Zurich

13:15 **Additive manufacturing for medical devices: an overview**

Dr.-Ing. Benoît Herman, Institute of Mechanics, Materials and Civil Engineering, Université catholique de Louvain

13:50 **Print it Right the 1st Time – How Simulation can help the Additive Manufacturing Industry Transition from Visual Prototyping to Optimally Engineered Products**

Dr. Roger Assaker, e-Xstream Engineering

14:30 Networking & exhibition

15:10 **Parallel Session I**

Additive Manufacturing for Medical Applications*	National flag ship project „Addmanu“*	Material Development
Stereolithography in the medical field. State of the art and future prospects <i>Dr. Simon Gruber, W2P Engineering</i>	Lithography-based Ceramic Manufacturing of Refractory Components <i>Dr. Gerald Mitteramskogler, Lithoz</i>	Challenges in 3D-FLM-printing of Natural Fibre Reinforced Polymers <i>DI Dr. Andreas Haider, Kompetenzzentrum Holz</i>
Potential of AM for wearable systems with patient-specific design: orthoses, prostheses and exoskeletons <i>Philip Czapka, Fraunhofer Institute for Manufacturing Engineering and Automation IPA</i>	Material- and process-related challenges modifying surfaces of 3D printed objects using robot-based inkjet printing <i>Dr. Michael Mühlberger, PROFACTOR Dieter Holzinger, Tiger Coatings</i>	UV curable polymer-ceramic inks for 3D inkjet printing <i>Dennis Graf, Karlsruhe Institute of Technology (KIT) IAM-WK</i>
Additive Manufacturing and applications in Cranio-Maxillofacial surgeries <i>Ralf Schumacher, University of Applied Sciences Northwestern Switzerland Dr. med. Florian Thieringer, Universitätsspital Basel</i>	Improvement of intra- and inter-layer strengths in extrusion-based additive manufacturing <i>Martin Spörk, Montanuniversität Leoben</i>	Molecular dynamic simulation of nanocomposites <i>Dr. Omma Sheikhnedjad, Johannes Kepler University, IPPE</i>
Discussion, World Café	AM for tools and components <i>Christopher Wiednig, voestalpine Additive Manufacturing Center GmbH</i>	Printing Polyolefin is a nasty work! Is it? <i>Dr. Thomas Fischinger, PROFACTOR</i>
		Filament metal printing <i>Markus Kaltenbrunner, EVO-tech</i>

* in cooperation with



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16:40 Networking & exhibition

17:20 **Additive Manufacturing of Medical Products**

Dr. Ing. Bogdan Dybała, Wrocław University of Technology, Center for Advanced Manufacturing Technologies

17:55 **Additive Manufacturing applied to mould making industry: Challenges and Opportunities**

Cândida Malça, Centre for Rapid and Sustainable Product Development of Polytechnic Institute of Leiria

18:30 Closing of day 1

19:30 Dinner at the restaurant „Orangerie“

sponsored by UAR
Upper Austrian Research GmbH

Friday,
September 29, 2017

08:15 Welcome coffee

08:30 Opening, welcome & agenda

08:40 **Silicones – A novel Material for 3D Printing/Additive Manufacturing**



Karsten Schlichter, Bluestar Silicone

09:15 **Case Study: FFF Printed Fiber-Reinforced Polymer Heat Exchanger**

Tom Mulholland, Polymer Engineering Center, University of Wisconsin-Madison

09:50 Networking & exhibition

10:30 **Parallel Session II**

Micro/Nano Additive Manufacturing	Integrated Electronics*	Additive Product Engineering*
Hot Lithography – Additive Alternative for Micro Injection Molding <i>Dr. Markus Pfaffinger, cubicure</i>	NanoDrip printing for printed electronics <i>Dr. Patrick Galliker, Scrona AG</i>	Additively Manufactured Pneumatic Actuators for Lightweight Robots <i>Gabriel Dämmer, FESTO</i>
Additive Manufacturing for M3dical REsearch. (M3dRES) <i>Ass. Prof. Francesco Moscato, Medical University Vienna</i>	3D-Printed Electronics <i>Dr. Volker Zöllmer, Fraunhofer Institute for Manufacturing Technology and Advanced Materials</i>	Additive Manufacturing (AM) and Product development: Opportunities, prospects and applications in Carinthia <i>Prof. Dr. Bernhard Heiden, Carinthia University of Applied Sciences</i>
Recent Applications of 3D Microprinting in Medicine and Biology <i>Dr. Jochen Zimmer, Nanoscribe</i>	Additive Digital Manufacturing in the Mass Production of Electronic Devices - A reality Now! <i>Dr. Fernando de la Vega, PV Nano Cell</i>	Benefits of 3D-Printing in Communication and Product Development Processes <i>Bernhard Mayrhofer, Canon Austria</i>
3D printed Micro Needles <i>Michael Haslinger, PROFACTOR</i>	Twinning Si- and organic-based electronics into printegrated systems on flexible substrates <i>Roman Lassnig, RISE Acreo</i>	Streamline the Additive Manufacturing of Individualized Products <i>Dr. Martin Reiter, Johannes Kepler University, IPPE</i>
Combining direct write laser lithography with 3D printing for optical applications <i>Ladislav Kuna PhD, Joanneum Research</i>	Tailoring magnetic field sources by printing NdFeB magnets <i>Prof. Dr. Dieter Suess, University of Vienna</i>	Additive Manufacturing and the economic impact to the value creation chain <i>Arko Steinwender, Fraunhofer Austria</i>
	* in cooperation with  smart plastics <small>UPPER AUSTRIA</small>	* in cooperation with  KC <small>KUNSTSTOFF CLUSTER</small>

12:00 Networking & exhibition

12:30 **AM-MOTION Project: a strategic approach to increasing Europe's value proposition for Additive Manufacturing**

Dr. Margherita Cioffi, Rina Consulting S.p.A.

13:05 **Additive Manufacturing: End-to-End Process**

Thomas Willinger, Siemens Industry Software GmbH, Digital Factory Division

13:40 **Bionics, Lightweight Design and Additive Manufacturing – an ideal combination for the future?**

Daniel Siegel, Alfred Wegener Institute, Elise Group

14:20 Awarding ceremony of school competition & closing of day 2 & farewell lunch

ORGANIZER



PROFACTOR is a non-profit, applied research company located in Steyr and Vienna and is involved in research and development for industrial production technologies. PROFACTOR focuses its research on two main topics. The progress in industrial assistance systems and the establishment of additive micro/nano manufacturing is for the competitiveness of the „Factories of the Future“ of fundamental importance. PROFACTOR acts as an interface between science and industry. Since the year 1995 PROFACTOR has demonstrated in more than 1,600 projects what can be created with applied production research. More than 400 customers, ranging from small businesses to enterprises have trusted PROFACTOR so far.

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The Institute for Polymer Product Engineering (IPPE) was established in 2009 in the frame of the Polymer Technology and Engineering Program at the Johannes Kepler University Linz (JKU). The institute contributes to the BSc and MSc education programmes and to research activity of the faculty on the field of polymer product engineering. In general, the institute deals with the various aspects of the design, the virtual and real prototyping and the structural integrity assessment of components made from various polymeric materials. The real prototyping covers the application of various generative manufacturing methods, the investigations of the materials used and the development of novel design methodologies.

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ADMINISTRATIVE AND GENERAL INFORMATION

Registration and Fees

Information on registration is available on the conference website.

The registration form should preferably be completed online: www.addit2017.org

Registration fees and included services (Price in EUR excl. 20% VAT)	Early Registration until: August 14, 2017	Late Registration until: September 24, 2017	On-site Registration September 28, 2017	Accommodation	Car parking fee	Add+it 2017 (incl. Dinner) Thu: September 28, 2017 12:30 – 22:00	Add+it 2017 (incl. Lunch) Fri: September 29, 2017 08:30 – 15:00
Regular participants	380,-	450,-	500,-	–	✓	✓	✓
Students	150,-	150,-	200,-	–	✓	✓	✓
Session speakers	250,-	250,-	-	–	✓	✓	✓
Plenary speakers	0,-	0,-	-	–	✓	✓	✓
Participant of project meeting	250,-	250,-	250,-	–	✓	✓	✓
VPTÖ member * /UAR Associated Companies ZAM Member	300,-	380,-	400,-	–	✓	✓	✓

Imprint

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