

Symposium on ADDITIVE MANUFACTURING AND INNOVATIVE TECHNOLOGIES 2016

September 29 - 30, 2016

Museum Arbeitswelt Wehrgrabengasse 7, 4400 Steyr (AT)

REFERENCE

contact@addit2016.org





Add+it 2016

The Add+it 2016 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 from four continents 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 29 are followed by the symposium dinner held at the "Orangerie".

On Friday, September 30, plenary lectures and time to networking will complete the Add+it 2016 program. The parallel sessions will provide opportunities to share ideas and discuss technical details related to additive manufacturing. On Friday afternoon a farewell accompanied by jazz music will offer room for dialogue between the Add+it attendees - take the opportunity to meet experts from R&D and industry!

The Add+it 2016 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 Maker Fair, conferences and more... www.nature-of-innovation.com

KEYNOTE SPEAKER*































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SESSION SPEAKER



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* the content is subject to change

PROGRAMRAM*

Thursday, **September 29, 2016**

11:30	Registration									
12:30	Opening, welcome & Prof. Dr. Z. Major, JKU IPPE	agenda I G. Hackl, Major of the city of Steyr I I. F	Hegny, bmvit I T. Lederer, PROFACTOR							
12:40	AM on its way to mass production: an interim result Dr. Marcus Rechberger, Lehmann & Voss									
13:15	Living printed structures - is it easy? Prof. Dr. Judit Erzsébet Pongrácz, Department of Pharmaceutical Biotechnology, University of Pécs, Medical School									
13:50	High quality metrology and intelligent reverse engineering for the tool correction process Dr. Dominik Schmid, Zeiss, Industrial Metrology									
14:30	Networking & exhibition									
15:10	Parallel Session I									
Additiv Medi	ve Manufacturing for ical Applications**	Surface Finishing	Material Development							
Increasing technology planning, in Christine Kir	health care quality with 3D y: Patient-specific surgical nstruments & implants net, 3D-Side	Haptic – a new 3D additive manufac- turing technology for textile surface finishing Dr. Thomas Schmidt, Huafeng	Novel compounds for FFF Stephan Schuschnigg, Montanuniversität Leoben							
3D printing of PEEK implants during surgery Prof. Dr. Ute Schäfer, Medical University of Graz Thomas Janics, Hage Sondermaschinenbau		Digital printing on 3D printed surfaces Dr. Michael Mühlberger, PROFACTOR	Material development for additive manufacturing Prof. DrIng. Thomas Hanemann, Karlsruhe Institute of Technology (KIT)							
Functional image processing for addi- tive manufacturing? Dr. Raimund Kleiser, KUK Linz, Neuroradiology		Surface finishing for prototypes and additive manufacturing Markus Schrittwieser, 1zu1 Prototyping	Tough and Biocompatible Thiol-yne Based Photopolymers for 3D Printing of Biomedical Materials Assoz. Prof. Dr. Thomas Grießer, Montanuniversität Leoben							
Discussior	n, World Café	Bernstein Innovation presents: ZWEIKAMPF – the world's first 3D-printed shin guard Jakob Schmied, Bernstein Innovation	Printing foams with PolyJet technology Andreas Kreuzer, Johannes Kepler University, CTO							
16:40	Networking & exhibition									
17:20	AM in automotive industry Martin Friedrich, BMW Group, AMC									
17:55	Inorganic and hybrid materials for additive manufacturing – examples of recent developments Dr. Karl-Heinz Haas, Fraunhofer Institute for Silicate Research ISC, Würzburg									
18:30	Closing of day 1									
19:30	Dinner at the restaurant "Orangerie"									

08:15 Welcome coffee 08:30 **Opening, welcome & agenda** 08:40 Modelling and simulation of selective beam melting processes Dr.-Ing. Julia Mergheim, LTM, Friedrich-Alexander-Universität Erlangen-Nürnberg 09:15 Exploring ultimate coherent photon technology for additive manufacturing and laser material processing Prof. Dr. Junji Yumoto, University of Tokyo 09:50 Additive manufacturing of silicone elastomers - challenges and prospects Dr. Frank Achenbach, Director Research Competence Center Fluids, Wacker Chemie AG 10:30 Networking & exhibition 11:00 **Parallel Session II Rapid Tooling** Integrated E How to improve injection molding with Rapid prototyping o prototypes made by additive tooling electronic packages structures on 3D-pri David Sarnowski, FIT - Additive Dr. Ali Roshanghias, C Manufacturing Group Research Injection molded components from Will inkjet-printed el 3D printed polymer molds - practical ubiquitous as in gra examples, field of applications and Christophe Mercier, Ar new opportunities Manfred Haiberger, Haratech Some practical examples of generative Additive manufactur applications manufactured components Koen van Os, Philips L Markus Kaltenbrunner, EVOtech How to obtain sub-n with an inkjet proces Dr. Patrick Galliker, Sc. 12:30 Networking & exhibition Oribotics - the future unfolds: aesthetic, biomechanic, and morphological 13:00 connections between nature, origami and robotics Matthew Gardiner, Ars Electronica, Futurelab 13:35 Materials design for shape memory response in additively manufactured parts Prof. Dr. Kishore Pochiraju, Director of the Design and Manufacturing Institute, Stevens Institute of Technology

** in cooperation with



ZUKUNFTS

KADEMIE

14:10

14:30

Closing of day 2

Farewell lunch



Electronics	Reverse Engineering					
f customized : Ink-jet printed inted substrates carinthian Tech	Approaching the challenges of future robotics by combining additive manu- facturing and pneumatic actuation <i>Gabriel Dämmer, FESTO</i>					
ectronics be as phics? deje	Training and education for additive manufacturing design <i>Dr. Martin Reiter, Johannes Kepler</i> <i>University, IPPE</i>					
ring for lighting	3D Printing: Trends and challenges from a computational perspective <i>Prof. Dr. Bernd Bickel, IST Austria</i>					
nicron resolution ss rona AG	ReconstructMe: Capturing photorea- listic and printable 3D models using low-cost hardware Christoph Heindl, PROFACTOR Application of 3D geometry measu- rements to additive manufactured components Norbert Hessenberger , TIZ Kirchdorf					



SPONSORS



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.

PROFACTOR GmbH Functional surfaces and nanostructures DI Lukas Häusler Im Stadtgut A2 A-4407 Steyr-Gleink www.profactor.at





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.

Institute of Polymer Product Engineering Johannes Kepler Universität Linz Prof. Dr. Zoltan Major Science Park 2, 0174 A-4040 Linz www.jku.at/ippe

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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.addit2016.org

Registration fees and included services (Price in EUR excl. 20% VAT)	Early Registration until: August 17, 2016	Late Registration until: September 14, 2016	On-site Registration September 29, 2016	Accommodation	Car parking fee	Add+it 2016 (incl. Dinner) Thu: September 29, 2016 12:30 – 22:00	Add+it 2016 (incl. Lunch) Fri: September 30, 2016 08:30 – 15:00
Regular participants	380,-	450,-	500,-	-	1	1	1
Students	150,-	150,-	200,-	-	1	√	1
Session speakers	250,-	250,-	-	-	1	1	1
Plenary speakers	0,-	0,-	-	-	1	1	1
Participant of project meeting	250,-	250,-	250	-	1		
VPTÖ member * /UAR Associated Companies TIP Kunden**	350,-	380,-	400,-	-	1		

Imprint

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