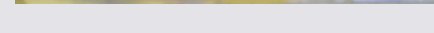
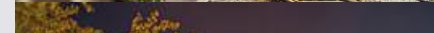


# SYMPOSIUM ON ADDITIVE MANUFACTURING AND INNOVATIVE TECHNOLOGIES

September 10 – 11, 2015  
Johannes Kepler Universität Linz  
Science Park 3, 4040 Linz (AT)







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# KEYNOTE SPEAKERS\*



**Prof. Hidemitsu Furukawa**

*Yamagata University, JP*

3D printing of soft matter, wet systems, and cross-linked hydrogels



**Prof. Elsa Reichmanis**

*Georgia Institute of Technology, US*

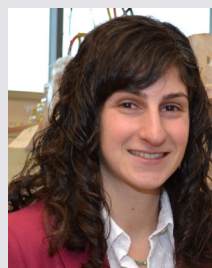
Polymeric and nanostructured materials for advanced technologies



**Dr. Thomas I. Madura**

*NASA Goddard Space Flight Center, US*

3D Printing meets astrophysics: A new way to visualize and communicate science



**Ass. Prof. Jessica Schiffman**

*University of Massachusetts Amherst, US*

Biopolymers and phenolic compounds, interface between soft materials and microbes, structure-property relationships



**Prof. Thomas Klar**

*Johannes Kepler University Linz, AT*

Optical sub-100 nm lithography



**Prof. Dr. Christiane Luible**

*Design Hochschule Genf, CH*

Digital Fashion



**Prof. Jürgen Stampfl**

*TU Wien, AT*

High performance materials for lithography based additive manufacturing



**Dr. Eynat Matzner**

*Stratasys, IL*

Digital Materials - the promise of multi material 3D printing



**Dr. Mangirdas Malinauskas**

*Laser Research Center of Vilnius University, LT*

Nano and micro-scale manufacturing options with two photon polymerization technique



**Dr. Christian Hadeyer**

*Lawfirm Prof. Hintermayr & Partner, AT*

Legal issues of 3D printing



**Dr. Markus Hatzenbichler**

*Fotec, AT*

Additive Manufacturing of metallic parts for space applications using Laser Beam Melting



**Bernhard Reitering**

*Research Center for Non Destructive Testing, AT*

Non-destructive testing in 3D printing



Several short presentations in each workshop are the guideline for discussion, show the state-of-the-art and break ground for further questions.

### WS3: Materials Development (with Focus on Polymers)

- Martin Reiter, Johannes Kepler University Linz  
*„Enhancing design and development processes with additive manufacturing“*
- Dan Ko, Shapeways  
*„Additive Manufacturing and the future of consumer products“*
- Thomas Kitzler, Altair  
*„How to unlock the true potential of additive manufacturing?“*
- Christian Seidel, Fraunhofer IWU  
*„BioTRIZ – Process know-how, design methodologies and software tools for enhanced Additive Manufacturing“*
- Daniel Kopp, Bibus  
*„The right technology for your requirements“*
- Alexander Hildebrandt, Festo  
*„Nature inspiration for automation“*

- Michael Mühlberger, PROFACOR  
„Additive Micro/Nano-Manufacturing: today and tomorrow“
- Oliver Refle, Fraunhofer IPA  
„New ways of producing smart electro-mechanical micro-systems“
- Marc Verschuuren and Remco van Brakel, Philips  
„Conformal imprinting in the broadest sense of the word“
- Markus Dickerhof, Karlsruhe Institute of Technology  
„Smart production of microsystems based on laminated polymer films“

- Fernando de la Vega, PV nanocells  
„General regarding materials UV curing and sintering with our Ag and Cu particles“
- Andreas Haider, Wood K-plus Zentrum  
„Naturale fiber reinforced FDM materials“
- Stefan Baudis, TU-Wien  
„Advanced Photopolymers for High Resolution Additive Manufacturing“
- Ilias Illiopoulos, Arkema/Sartomer  
„ARKEMAS expertise in UV curable high resistant acrylates for PolyJet 3D printing“
- Eynat Matzner, Stratasys  
„Digital Materials“

## WS6: Frauen in die Medizintechnik

- Christiane Luible, Design Hochschule Genf  
„Digital Fashion“
- Kunigunde Cherenack, PHILIPS, Lightning solutions  
„PHILIPS' planned business model related with 3D printing of luminaires“
- Katia Glossmann and Xavier Tutó, GrowthObjects  
„Expertise related with responsive custom design generation and web-based platforms, offering pre-established possibilities for co-designing according to the features of each design“
- Manuel Walch, Ars Electronica Center  
„Fablab Movement“

- Jochen Gledenbacher, University of Applied Sciences Upper Austria  
„Quality improvement of components and expanding the material spectrum by tempering the building area in 3D metal printing“
- Markus Hatzenbichler, Fotec  
„Additive Manufacturing of metallic parts for space applications using Laser Beam Melting“
- Martijn Witteveen, Blok Group  
„Additive Manufacturing as supply chain optimisor“
- Joachim Zettler, AIRBUS APWORKS  
„Serial applications of additive manufacturing @ Airbus“

- Sabine Hild, Institute of Polymer Science, JKU
- Jessica Schiffman, University of Massachusetts-Amherst, USA
- Alexandra Heindl, Bandagist Heindl
- Marianne Hollensteiner, FH OÖ
- Gerda Estl, FH Gesundheitsberufe OÖ GmbH

*The participants of this workshop will discuss the various options of the application of generative manufacturing systems and machines for medical applications.*



# PROGRAM\*

## September 10, 2015

## Add+it (part 1)

- |       |   |
|-------|---|
| 12:00 | Registration  |
| 13:00 | Opening, welcome & agenda <ul style="list-style-type: none"><li>- Landesrätin Mag. Doris Hummer</li><li>- G. Anderst-Kotsis, Vice-Rector for Research, JKU</li><li>- Z. Major, JKU IPPE</li><li>- M. Mühlberger, PROFACTOR</li></ul>        |
| 13:30 | Session I <ul style="list-style-type: none"><li>- T. A. Klar, Johannes Kepler University Linz, AT</li><li>- J. Stampfl, TU Wien, AT</li><li>- H. Furukawa, Yamagata University, JP</li><li>- E. Matzner, Stratasys, IL</li></ul>            |
| 15:30 | Break   |
| 15:45 | Session II <ul style="list-style-type: none"><li>- C. Hadeyer, Lawfirm Prof. Hintermayr &amp; Partner, AT</li><li>- E. Reichmanis, Georgia Institute of Technology, US</li><li>- J. Schiffmann, Uni. of Massachusetts Amherst, US</li></ul> |
| 17:15 | Discussion, Networking, Exhibition  |
| 18:30 | Closing Day 1   |
| 18:45 | Transfer to social event location   |
| 19:45 | Symposium's Dinner: <a href="#">Pöstlingberg Schloßl</a>  |
| 22:45 | Transfer back to main square  |

## September 11, 2015

## Add+it (part 2)

- |       |  |
|-------|--|
| 09:00 | Opening, welcome & agenda <ul style="list-style-type: none"><li>- M. Mühlberger, PROFACTOR</li><li>- Z. Major, JKU IPPE</li></ul>  |
| 09:15 | Session III <ul style="list-style-type: none"><li>- B. Reitering, Research Center for Non Destructive Testing, AT</li><li>- M. Hatzenbichler, Fotec, AT</li><li>- M. Malinauskas, Laser Research Center of Vilnius University, LT</li></ul>  |
| 10:30 | Break  |
| 10:40 | Opening: A. Pogany, BMVIT<br>Parallel Workshops<br>WS1: Component Design and Development<br>WS2: Additive Micro/Nano-Manufacturing<br>WS3: Materials Development (with Focus on Polymers)<br>WS4: Visionary Applications in Art and Design<br>WS5: Metal Additive Manufacturing<br>WS6: Frauen in die Medizintechnik** |
| 12:00 | Buffet lunch   |
| 13:00 | Closing Keynote Session <ul style="list-style-type: none"><li>- T. I. Madura, NASA's Goddard Space Flight Center, US</li></ul>   |
| 13:30 | Summary, Discussion  |
| 14:00 | Closing Day 2  |

## September 11, 2015

14:00 Farewell and On-site visit

Discussions, networking, and goodbyes while listening to live jazz music.

On-site visits are also possible - guided tour through laboratories at JKU campus.

\* the content is subject to change

\*\* Frauen in die Technik (FIT) Program - Women in Engineering and Sciences is initiated by the Johannes Kepler University Linz to encourage young women to pursue academic degrees in fields of engineering and science.



PROFACTOR GmbH  
Functional surfaces and nanostructures  
Dr. Klaus Bretterbauer  
Im Stadtgut A2  
A-4407 Steyr-Gleink  
[www.profactor.at](http://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](http://www.jku.at/ippe)

# SPONSORS





The registration form should preferably be completed online: [www.addit2015.org](http://www.addit2015.org)

JKU Science Park 3 , 4040 Linz (AT)

Follow roadway A7, take exit "Linz Dornach". Distance: ~ 2,5 km  
Follow the street "Altenbergerstraße". The Conference venue is located on the right hand side after about 1 km. A parking indoor space is available underneath the conference building. Please follow the signs at the conference venue.  
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