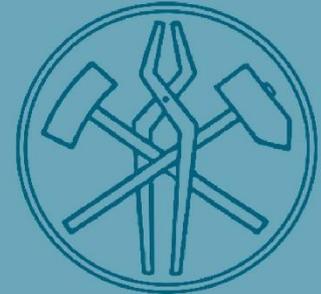


*Welcome to the*

**Alloys for  
Additive Manufacturing  
Workshop**

**MPIE Düsseldorf, 4-5 July 2016**



# Alloys for Additive Manufacturing Workshop

MPIE Düsseldorf, 4-5 July 2016



Powder morphology  
Surface properties

Heterogeneity  
Defects (porosity, cracking,...)

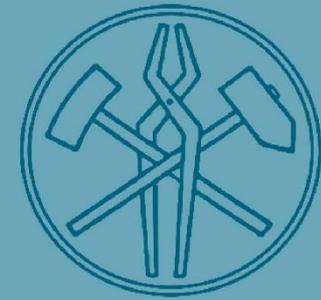
Rapid Alloy Prototyping  
Fatigue properties

Local metallurgy  
Processability  
Impurities  
Texture

Unique thermal history  
Residual stresses

# Alloys for Additive Manufacturing Workshop

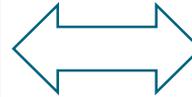
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Up to now, the potential of AM cannot be fully realised because no materials tailor-made for these unique processes exist.

**Yesterday**

Casting led to development of modern cast alloys



**Today**

Off-the-shelf alloys used in AM



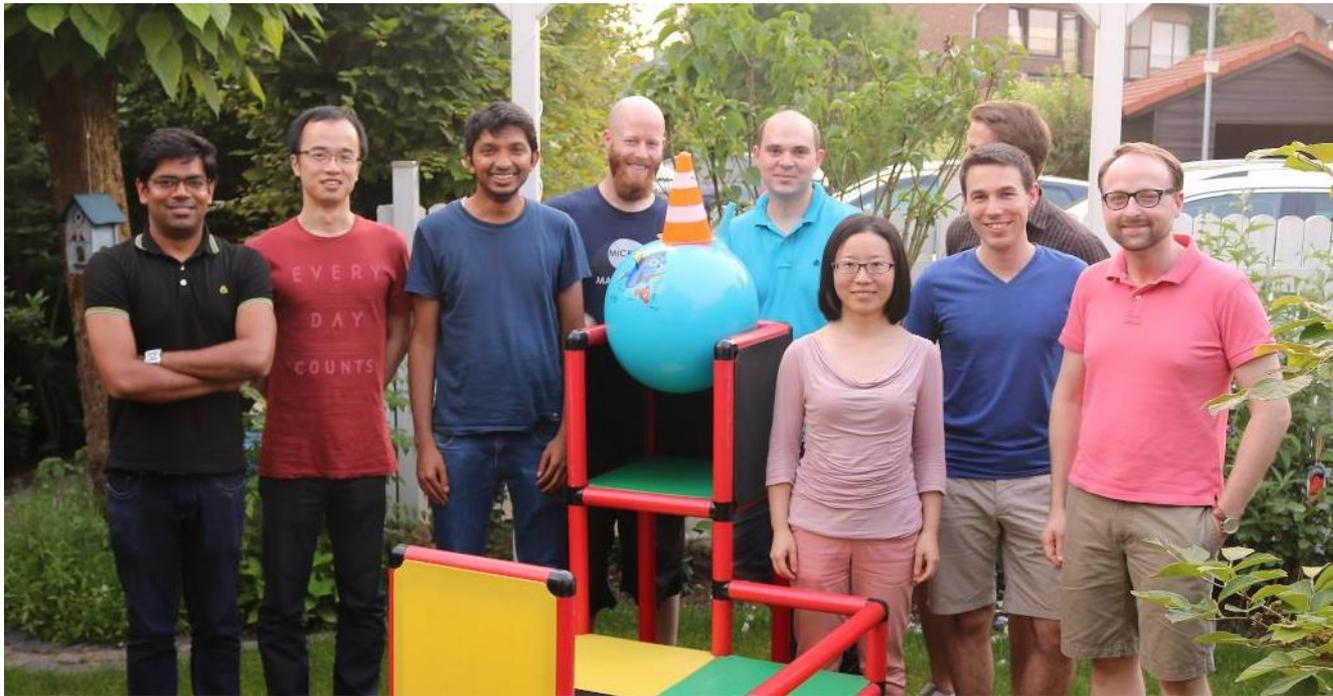
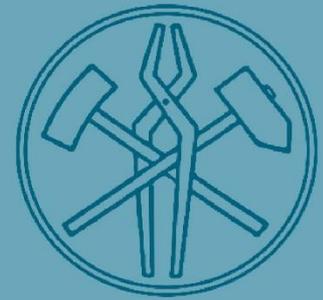
**Tomorrow**

Optimised alloys *for* AM  
New alloys *by* AM



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***Thank you to the entire AAM group!***