



VDI

YOUNG SCIENTIST WORKSHOP

10 – 11 October 2019

Industriepark Wolfgang · Hanau · Germany

Chemistry and Advanced Materials for Additive Manufacturing of Metals and Alloys

www.processnet.org/en/AIC_YAWS2019

For PhD students, postdocs and
research group leaders free of charge.

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INVITATION

The development of materials for additive manufacturing is a challenge that requires the collaboration of materials scientists, chemistry, and process engineers. This workshop will bring young scientists together to discuss how metals and alloys can be designed to meet industrial requirements.

A broad variety of materials and technologies for additive manufacturing methods (AM) or 3D printed objects are currently under development. Process technologies develop fast, while designers, engineers and OEMs turn the new options into products of use. However, matching industrial requirements is an immense challenge as material properties, process speed or other technical, ecological or economic issues must be taken into account. Furthermore, AM methods, materials and processes have not become standardized or were fed into statutory regulations.

Participants will present their recent work to discuss progress and challenges in an open atmosphere. Applications may range from electronic fine structures and devices, display architectures, precision metal printing to macroscopic turbines and screw propellers.

- » Submissions of posters are mandatory
- » Oral speeches are optional

Who: Young scientists from inorganic chemistry, materials chemistry, metallurgy, materials processing and engineering

TOPICS

- » raw materials manufacturing
- » formulation
- » powder handling
- » printing
- » welding
- » melting
- » sintering
- » dispensing, etc

Participants will get insights into latest materials innovations, process optimization methods and designs, e.g. for fluid dynamically optimized chemical reactors and design of optimized aerospace or automotive construction elements.

The workshop shall also foster networking among the young scientists.

The Subject Division Applied Inorganic Chemistry of ProcessNet cordially welcomes you to Hanau.

INFORMATION AND REGISTRATION

Online: www.processnet.org/en/AIC_YSWS2019

ORGANIZATION / CONTACT

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