

Preface

The ‘WGP-Jahreskongress’ is an annual conference series that is supported by over 40 German institutes, which are leading in the field of production engineering. They are organised within the German Academic Society for Production Engineering (WGP). In 2016 the 6th edition of the conference takes place at the Laboratory of Production Engineering (LaFT) the second and for now last time. The LaFT is part of the Helmut-Schmidt-University (HSU) which is one of the two universities of the Federal Armed Forces in Germany.

At the Helmut-Schmidt-University the course of studies is organized within trimesters. Due to the fact that the HSU is also open for non-officer candidates, mainly companies send scholars to profit from the tight schedule and therefore short time of education. Furthermore the university offers a low student to teacher ratio of currently 22:1. As part of the Department of Mechanical Engineering the LaFT’s research activities cover a wide range. There are three main disciplines: automation and robotics; micro machining; value creation taxonomy. The overall aim is to gain results in fundamental research and to transfer those into industrial applications to reach high technology readiness levels. This is done for several application oriented projects, especially in the field of aviation industries.

The vision of the ‘WGP-Jahreskongress’ is to organize a meeting for young researchers presenting their scientific results under their own name and to provide a floor for networking activities within the WGP. Basing on first experiences from 2015, the congress is open for representatives of production engineering companies. This allows for a beneficial direct communication between industry and research throughout the various sessions.

For me, it is a pleasure to welcome all WGP-members at the conference in Hamburg. There will be approximately 70 presentations by young scientists organised in five topics: forming, cutting and finishing operations, machine tools, organisation and one new session covering emerging technologies. There will be three keynote presentations underlining the need for high level research in the field of production engineering. As an additional highlight two rewards will be presented. The ‘Otto-Kienzle-Gedenkmünze’ is awarded to a young researcher, indicating that noticeable success can be reached within a few years of scientific work. The best paper award is awarded to one of the scientists in each of the five topics to acknowledge papers with high scientific quality.

Please enjoy the conference and the city of Hamburg, use the chance to network and gain an inside view on current research.

Prof. Dr.-Ing. Jens P. Wulfsberg

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The organisers of the ‘WGP-Jahreskongress’ 2016 wish to thank the following companies and institutions for their sponsorship and support.



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