Dominik Rößle

Dominik Rößle studied Industrial Engineering at the Universität Kassel. He wrote his diploma thesis at Volkswagen AG Wolfsburg with the focus on the Production System in comparison to the ISO 9001 and the VDA 6.1. Currently he is research associate at the Chair of Quality Science and is fully responsible for the lectures of Techniques of Quality Management and Six Sigma Problem-Solving.

These lectures are dealing with the basics tools of Quality Management and advanced statistics methods also as project management. According to an existing cooperation with the Institute for Production Systems and Design Technology of the Fraunhofer Society he supports consultancy projects on process improvement.

René Helm

René Helm is research associate at the Chair of Assembly Technology and Factory Management of the Technical University of Berlin. He was born 1985, studied industrial engineering at the Leuphana University of Lüneburg and the Technical University Berlin. He wrote his Bachelor-Thesis at Olympus Winter & Ibe GmbH in Hamburg with the focus on avoiding waste, 5S and staff qualifications.

René Helm wrote his Master Thesis at BMW Motorcycle in Berlin with the focus on strategic direction, value stream mapping and layout planning. Since August 2012 he is research engineer at the Technical University of Berlin and is partly responsible for production management lean Management and learning factories.

Technische Universität Berlin

IWF

Fraunhofer IPK
INSTITUT PRODUKTIONSANLAGEN UND KONSTRUKTIONSTECHNIK

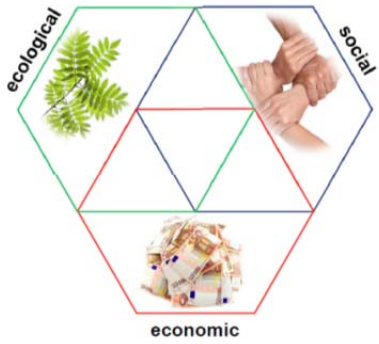
Founded in 1904, the department for machine tools and factory management is one of the longest standing institution of research and teaching in Germany.

The focal points in technologies and operations of industrial factory management are closely involved in our research and teaching program comprises development of process technologies and production plants and it's modelling by information technology.

Scientists of six chairs are working on a high interdisciplinary basis. The holistic aim of simulate, verify and streamline the completely product creation and life cycle by visualizing and networking the product development, manufacturing planning and production, is our motivation.

LEARNING FACTORIES

An action-oriented approach can promote competence development of engineers very effectively. For their training the concept of learning factories is considered to be particularly beneficial and has proven to be superior compared to other learning environments. Highly qualified and independently operating employees are a basic prerequisite for a competitive and future-oriented production. Therefore, companies and universities increasingly tend to develop and operate learning factories. So far, such factories are mainly used to strengthen abilities for more efficient resource utilization – energy- and lean management are typical subjects. However, for company´s long term success and society´s sustainable development the efficiency of economies of scale alone is not sufficient - objectives towards effectiveness in scope are essential. This requires new thinking and adapted strategies of the employees.



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4TH CONFERENCE ON LEARNING FACTORIES
Sustainable manufacturing in learning factories

Dominik Rößle and René Helm