

SMART AND NETWORKED MANUFACTURING

Save the date!

Tuesday, 4th October 2022

19:00 Come Together @ TUtheSky

Wednesday, 5th October 2022

09:00 - 10:45 Opening + Keynote

11:25 - 17:30 Plenary sessions

18:30 Gala Dinner @ Kunsthistorisches Museum Vienna

Thursday, 6th October 2022

09:00 - 16:00 Plenary sessions

16:00 Networking



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For more information and registration check our website:
www.produktionstechnik.at

Host & Contact

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Program

Tuesday, 4th October 2022

19:00 Come Together

TU Wien - TUtheSky - Getreidemarkt 9, BA, 11.0G, 1060 Vienna, Austria

Wednesday, 5th October 2022

Palais Niederösterreich - Herrengasse 13, 1010 Vienna

8:00 - 9:00 Registration

9:00 - 10:35 Opening & Opening Keynote

Smart and Networked Manufacturing

Univ.Prof. Dr. Friedrich Bleicher

Head of the Institute of Production Engineering and Photonic Technologies,
Technische Universität Wien

Opening Address

Mag. Helmut Miernicki

CEO, ecoplus. Niederösterreichs Wirtschaftsagentur GmbH

Opening Address

Dr. Wolfgang Petritsch

President of the Austrian Marshall Plan Foundation,
President of the Austrian Institute for International Affairs-OIIP,
Chair of the Herbert Kelman Institute for Interactive Conflict Resolution

The European Manufacturing System

Klaus Beetz

CEO, EIT Manufacturing

Learning what we already know: On the 50th anniversary of "The Limits to Growth"

Carlos Alvarez Pereira

Vice President, The Club of Rome

EU's aspiration in the next generation of digital innovation

Francesco Bonfiglio

CEO, Gaia-X European Association for Data and Cloud AISBL

10:35 - 11:00 Coffee Break

11:00 - 12:40 Plenary Session 1

Digitale Transformation in der Automobilindustrie

Oliver Ganser

Head of Programme - Data Driven Value Chain, BMW Group,
Head of Consortia Catena-X and Chairman of the Board Catena-X e.V.

Technical, Economical and Ecological Potentials of Electrified Roads

Prof. Dr. Jörg Franke

Head of Institute for Factory Automation and Production Systems,
Friedrich-Alexander-Universität Erlangen-Nürnberg

Industrial AI-Augmented Predictive Analytics for Highly-Connected Industrial Systems

Prof. Jay Lee

Board Member of Foxconn Technology Group,
Founding Director of Industrial AI Center, University of Cincinnati

Sustainable Aviation: Aircraft Concepts and Production

Dr. Matthias Lange

HO Industrial Technologies Additive Manufacturing & Machining, Premium AEROTEC GmbH

12:40 - 13:40 Lunch

Wednesday, 5th October 2022

13:40 - 15:20 Plenary Session 2

Innovation in challenging markets

How efforts in the manufacturing business to build ecosystems are about to change

DI Jacek Kruszynski

Member of the Executive Board, CTO, MAPAL Fabrik für Präzisionswerkzeuge Dr. Kress KG

Optimisation of the cooling effect and defect identification of different processes for the aerospace industry

Prof. Dr.-Ing. Prof. h.c. Dirk Biermann

Head of the Institute of Machining Technology, Technische Universität Dortmund

Digitalisierung – Produktivität – Innovation „Smarte“ Werkzeugentwicklung

Kurt Brenner

Manager - Technology & Production, Iscar Germany GmbH

Modern lightweight materials – challenge and solution for cutting tools

Dr. Nicolas Beer

Head of research projects & drilling tool development, Gühring KG

15:20 – 15:50 Coffee Break

15:50 - 17:30 Plenary Session 3

Material development in the name of e-mobility, safety requirements and challenges

DI Dr.-Ing. Peter Wagner

Senior Technology Manager, ISOVOLTA AG

A review of multi-physics simulations of Additive Manufacturing technologies

Dr. Enrique Escobar de Obaldia

Lead Application Engineer - Additive Manufacturing, ANSYS Germany GmbH

Innovations in 3D-technology process chain

DI Florian Feucht

Head of Sales and Application, DMG MORI Additive GmbH

Solid-State Metal Additive Manufacturing

Prof. Frank Pfefferkorn

Professor, University of Wisconsin-Madison

Professor (Marshall Plan Foundation), Technische Universität Wien

18:30 Gala Dinner

Kunsthistorisches Museum

Maria-Theresien-Platz , 1010 Vienna



Program

Thursday, 6th October 2022

Palais Niederösterreich - Herrengasse 13, 1010 Vienna

9:00 - 10:40 Plenary Session 4

From a Lean Factory to a Green Lean Digital Factory

Stephan Schläuß

Head of Manufacturing – Motion Control & Production Site GWE, Siemens AG

Sustainable Lifecycle in Contemporary Air Vehicles

Phillip Crothers

Research and Technology, The Boeing Company

Intelligence for cool machining

Prof. Dr.-Ing. Dr. h.c. Konrad Wegener

Head of Institute of Machine Tools and Manufacturing, ETH Zürich

Keynote

Dr. Masahiko Mori

President, DMG MORI COMPANY LIMITED

10:40 – 11:05 Coffee Break

11:05 - 12:45 Plenary Session 5

Machine Tool Dynamics

Prof. Tony Schmitz

Professor, University of Tennessee, Knoxville

Professor (Marshall Plan Foundation), Technische Universität Wien

Sustainable self-optimizing manufacturing by intelligent cyber-physical tools

Univ.-Prof. Dr. Christian Möhring

Chair and Director of Institute for Machine Tools Management, University of Stuttgart

Electrified Work Holding for Next Generation of Machining Centers

Prof. Masakazu Soshi

Assistant Professor, Department of Mechanical and Aerospace Engineering,

University of California, Davis

Professor (Marshall Plan Foundation), Technische Universität Wien

The Future Role of Metrology in a Changing Production Environment

Dr. Andreas Lange

Vice President Global R&D Systems, Mahr GmbH

12:45 - 13:45 Lunch

After lunch, congress attendees can take part in one of two parallel sessions.

13:45 - 15:50 Parallel Session 1

Digitization in production

Prof. Dr. Marc Stautner
Professor, Hochschule Ruhr West
Research Director, ModuleWorks GmbH

The human side of Industrie 4.0: Incorporating people's capability and personal satisfaction to system design

Prof. Dr. Laine Mears
Acting Department Chair, Automotive Engineering, University Centennial,
Professor and BMW SmartState Chair in Automotive Manufacturing

The European Production Giganet - towards a Green and Digital Manufacturing Ecosystem

Prof. Dr. Matthias Weigold
Head of the Institute for Production Management, Technology and Machine Tools,
Technische Universität Darmstadt

Resource optimization in production – real-time data leads to closed loop processes. Presentation of digitalization in parts production to the smart factory

Dr.-Ing. Thomas Mücke
Global preSales part manufacturing, Siemens Industry Software GmbH

Environmental impact of machining

Prof. Pedro Arrazola Arriola
Senior Lecturer, Mondragon University

13:45 - 15:50 Parallel Session 2

Strategic Corporate and Start-up Collaboration – The Way Forward

Dr. Christian Bölling
Managing Director, EIT Manufacturing Central
Philipp Horner
Chief Sustainability Officer, voestalpine High Performance Metals

EIT Manufacturing – A Driver for European Manufacturing Innovation; Example SmartFlexCell

Dr. Gerhard Russ
Innovation Manager, EIT Manufacturing East
Dr. Igor Kovač
Department of Automatics, Biocybernetics and Robotics & Head of Center Factories of the Future, Jožef Stefan Institute

Smart and Networked Start-up Technologies

Jasmina Popovska
Senior Business Creation Manager, EIT Manufacturing East
Ing. Megi Mejdrechová
Co-Founder and CTO, RoboTwin
Pavel Konečný
Founder and CEO, Neuron Soundware

The European Manufacturing System – Round Table

Dr. Christian Bölling
Managing Director EIT Manufacturing Central
Christoph Krammer
Manufacturing & Technology Strategy, MAGNA STEYR
Univ.Prof. Dr. Friedrich Bleicher
Head of the Institute of Production Engineering and Photonic Technologies, Technische Universität Wien
Ing. Megi Mejdrechová
Co-Founder and CTO, RoboTwin

15:50 Summary

16:00 Networking

WPK 2022 Partners



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