

2020年度 CIRPの夕べ(WEB講演会)

●日時 :2020年12月9日(水)17時00分より

●開催方法 :ZOOM(WEB講演会)

●スケジュール

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|-------------|---|
| 17:00~17:05 | 一般社団法人 CIRP JAPAN 代表理事挨拶 |
| 17:05~18:05 | Professor Thomas Bergs (RWTH Aachen University)
講演題目: Pioneering Digital Transformation in Manufacturing |
| 18:05~18:10 | 休憩(5分) |
| 18:10~19:10 | Professor Christoph Herrmann
(Technical University of Braunschweig)
講演題目: Urban Production: State of the Art and Future Trends for
Urban Factories |
| 19:10~19:15 | 閉会の言葉 |
| 19:15~19:45 | 歓談
2021年2月パリ会議, 2021年8月GAについてなど |

Curriculum Vitae (in brief)



Personal Information

Prof. Dr.-Ing. Christoph Herrmann
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Prof. Dr.-Ing. Christoph Herrmann is university professor for Sustainable Manufacturing & Life Cycle Engineering and co-director of IWF, Institute of Machine Tools and Production Technology, Technische Universität Braunschweig as well as director of the Fraunhofer Institute for Surface Engineering and Thin Films IST.

After his doctor degree (Dr.-Ing.) in 2003 he habilitated in production engineering in 2008 and was appointed associate professor (apl. Prof.) in 2011. In 2013, he became full professor. As a company's founder (2002 - 2007) he has transferred tools and services to support design for environment into the electric/electronic and automotive industry. From 2005 to 2008, he was also scientific director of KERP Center of Excellence Environment & Electronics, Vienna. From August 2009 to February 2013, he was scientific director and member of the Automotive Research Center Niedersachsen (NFF). Since 2009 he leads the Joint German-Australian Research Group on "Sustainable Manufacturing and Life Cycle Engineering" together with Prof. Sami Kara from the University of New South Wales (UNSW), Sydney. Since 2012, he is Visiting SIMTech Fellow at the Singapore Institute of Manufacturing Technology. Prof. Herrmann is also member of the Open Hybrid LabFactory (OHLF). OHLF is a Research Campus supported by the German Ministry of Research and Education (BMBF) and organized as Public-Private Partnership for Innovation aiming at large-scale and long-term cooperation between science and industry. Professor Herrmann is also member of the Battery LabFactory Braunschweig (BLB), an open research infrastructure to investigate and develop electrochemical storage devices from laboratory to pilot plant scale. He is member of Aeronautics Research Centre (NFL) where he focuses on life cycle engineering to foster energy system transformation in aviation. Within the Center of Pharmaceutical Engineering (PVZ) he coordinates the work of the cross-sectional group on pharmaceutical manufacturing engineering.

Professor Herrmann has conducted various industry and research projects in the context of life cycle engineering and sustainable manufacturing on national and international level. He has published more than 300 papers and book publications as author, co-author and editor. Professor Herrmann is member of the International Academy for Production Engineering (CIRP).

In 2011, Prof. Herrmann's team, together with colleagues from Fraunhofer and industry partners, has won the German Resource Efficiency Award from the Federal Ministry of Economics and Technology (BMWV), Germany. In 2013 the lecture "Product and Life Cycle Management (Today: Ganzheitliches Life Cycle Management)" was rewarded with the LehrLEO award by the TU Braunschweig as the best lecture in the bachelor degree programme. In 2018, the same lecture received the LehrLEO-Star for repeated nomination. From 2009 to 2019 Professor Herrmann was mentor professor for the Klaus Murmann Fellowship Programme at the Foundation of German Business (Stiftung der Deutschen Wirtschaft, sdw). And from 2017 to 2019, Professor Herrmann was also Dean of the Faculty of Mechanical Engineering. Since November 2018 Prof. Herrmann is also director of the Fraunhofer Institute for Surface Engineering and Thin Films IST.

Personal Information

Prof. Dr.-Ing. Thomas Bergs, MBA

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In his capacity as a Member of the Board of Directors of the Fraunhofer Institute for Production Technology IPT, Professor Thomas Bergs leads the Process Technology Division and is the Chair of Manufacturing Technology at the Laboratory for Machine Tools and Production Engineering WZL at the RWTH Aachen University.



For the main part of his academic qualification, Thomas Bergs studied design engineering at the Rheinisch-Westfälische Technical University, Aachen. He graduated in 1995 having written his diploma thesis at the Engineering Research Center for Net Shape Manufacturing in Columbus, Ohio. In 2001 he went on to earn a doctorate in engineering at the RWTH Aachen University for which he was awarded the Borchers Plaque. He also graduated as an Executive Master of Business Administration in 2011.

Thomas Bergs was a research associate in the Process Technology Section at the Fraunhofer Institute for Production Technology IPT in Aachen from 1995 to 2000. In the year 2000, he was appointed Manager of the Laser Engineering Group and of the Business Unit »Aachener Werkzeug- und Formenbau« (Aachen Tool and Die Making). Since 2001 he has also held the position of Managing Director under Professor Fritz Klocke as institute head. Thomas Bergs has additionally founded the company Aixtooling in 2005, where he became Managing Director until 2018. Core area of the expertise at Aixtooling was tool making for precision glass molding as well as advanced glass optics manufacturing. In 2018 Thomas Bergs was appointed as Professor at the Chair of Manufacturing Technology at the Laboratory for Machine Tools and Production Engineering WZL of the RWTH Aachen University and as Director of the Process Technology Division at the Fraunhofer Institute for Production Technology IPT. As the successor to Professor Fritz Klocke, he is also a member of the Board of Directors of both production engineering institutes. Main focus of his ongoing research activities comply the digital transformation of manufacturing technologies – so called networked adaptive production.