



Berlin, Germany

Berlin is not just Germany's political centre, but it is also among the most dynamic economic and scientific regions in Europe. The capital area offers excellent conditions for business and investors by a well-developed infrastructure and a strong science and research community. Berlin encompasses Germany's largest concentration of scientific institutions, among others, three major universities and institutes of Fraunhofer, Helmholtz and Max Planck, also corporate research and development departments as well as many start-ups. The entrepreneurial activity is diverse, including IT, chemical, electrical and mechanical engineering, service and logistics. The dynamic service sector contributes to an increasingly networked value creation. Berlin has become a melting pot of nationalities from all over the globe. Based on centuries long tradition of integrating skilled people from European countries, and especially after the break of the Wall and the reunification of Germany from all over the world, an atmosphere of innovation and entrepreneurial outbreak coins the atmosphere of the region. Young personalities, highly motivated for challenging activities, come to Berlin for networking and shaping action paths for their future lives and professional careers. In this context, innovative high-tech businesses and a huge number of start-ups of all kind progressively come into existence. Museums of arts, history and technology, theatres and opera houses create a rich cultural scene.

Contact

Prof. Dr.-Ing. Holger Kohl, Local Chairman

Prof. Dr.-Ing. Günther Seliger, Founding Chairman

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Venue

The 18th GCSM will take place at the Production Technology Centre (PTZ), which integrates Technische Universität Berlin, Institut für Werkzeugmaschinen und Fabrikbetrieb (IWF) and Fraunhofer Institut für Produktionsanlagen und Konstruktionstechnik (IPK). At PTZ, a manifold of projects on innovative value creation, with special reference to manufacturing technology and management, are carried out. Synergies between experienced research, teaching staff and young students characterize the environment at the PTZ.

In case the circumstances do not allow a face-to-face conference, the conference will take place virtually.

Past Conferences

2003 	2004 	2005 	2006 	2007 	2008 
2009 	2010 	2011 	2012 	2013 	2014 
2015 	2016 	2017 	2018 	2019 	2021 

September 29 - October 1, 2021

Berlin, Germany



18th



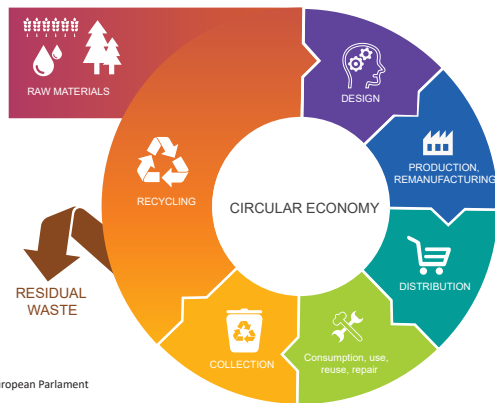
**Global Conference
on Sustainable
Manufacturing**

GCSM



Sponsored by CIRP
International Academy
for Production Engineering





18th GCSM Contents

The Technical University of Berlin and Fraunhofer IPK would be happy to welcome you to our 18th Global Conference on Sustainable Manufacturing (GCSM), in cooperation with the partner acatech (www.acatech.de). The focus of the GCSM 2021 relies on value creation through circular economy, addressing different topics, such as sustainable business models and technological perspectives of circularity for different types of products.

The GCSM serves as a global forum for academics, researchers and specialists from universities, research institutes and industry across the globe, working on topics related to sustainable manufacturing. A unique feature of the GCSM conference series is its integration of industrial engineering perspectives, sustainable manufacturing applications in emerging and developing countries as well as education and workforce development for advancing sustainable manufacturing.

Sustainable Manufacturing is buzzwords for our annual global conference, since 2003 and now for the third time in 18 years in Berlin. The conference aims to exploit manufacturing engineering potentials for bridging the gap between awareness on sustainability challenges and means to systematically and concretely cope with them. How to cope with the challenges of global sustainability becomes a more and more urgent task, once the awareness about imbalanced wealth distribution, climate crisis and lack of holistic responsibility in investments are considerably increasing. Interdisciplinary discourse and reasonable action in learning and teaching on themes such as circular technology and economy, distribution of labor for comprehensive human development, exploiting natural resources with care and circumspection are responsibilities of global citizens.

We look forward to meet you in Berlin for the 18th GCSM!

Best regards, Günther Seliger and Holger Kohl

Deadlines

Abstract submission:	March 22, 2021
Notification of abstract acceptance/rejection:	April 2, 2021
Full paper submission:	May 7, 2021
Notification of full paper acceptance/rejection:	July 5, 2021
Deadline for the final manuscript submission:	July 19, 2021

Registration fees

Early bird	€ 600	On or before July 31, 2021
Regular	€ 650	On or before August 31, 2021
On-site	€ 700	After August 31, 2021

Master/Bachelor student fee:

€ 250 Before July 31, 2021

€ 300 After July 31, 2021

Topics

Sustainable Products

- Product (re)design for circular economy
- Product recovery, reuse and remanufacturing
- Product life cycle, information and knowledge management
- Product service systems

Sustainable Manufacturing Processes

- Manufacturing processes, tools and equipment
- Energy and resource efficiency
- Resource utilization and waste reduction
- Maintenance, service, repair and overhaul of manufacturing machines and equipment

Sustainable Manufacturing Systems

- Manufacturing system design
- Production planning, scheduling and control
- Sustainable reconfigurable manufacturing systems
- Sustainable supply chains

Crosscutting Topics in Sustainable Manufacturing

- Sustainable value creation
- Strategies and business models
- Industry 4.0 and sustainable manufacturing
- Metrics for sustainable manufacturing (product, process, systems)
- Education and workforce development
- Sustainable smart cities

