



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 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 startups. The entrepreneurial activity is also diverse, including IT, chemical, electrical and mechanical engineering, service and logistics. The manufacturing sector of Berlin/Brandenburg capital's region is a highly productive economic sector, represented by companies such as Siemens, Daimler, Alstom, Rolls-Royce and the new Tesla factory. In addition, the dynamic service sector contributes to an increasingly networked value creation.

These different stakeholders, e.g., research institutions, startups, industry and the service sector, are committing to transform Berlin in a climate-neutral city by 2050. This is planned to be reached through the development and application of new energy and climate protection strategies, in which sustainable manufacturing plays an essential role.

Contact

Prof. Dr.-Ing. Franz Dietrich, Local Chairman

Prof. Dr.-Ing. Holger Kohl, International 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.

18th GCSM goes hybrid

GCSM 2022 will be a hybrid event, enabling in person attendance and virtual participation. The program will include physical sessions with on-site presentations as well as virtual sessions for remote participants.

Past Conferences



October 5 to 7, 2022

Berlin, Germany



18th



Global Conference
on Sustainable
Manufacturing

GCSM

"Manufacturing driving
Circular Economy"





Source: Circular Economy - European Parliament (europarl.europa.eu)

18th GCSM

Contents:

TU Berlin (IWF) and Fraunhofer (IPK) would be happy to welcome you to our 18th GCSM, in cooperation with the partner acatech. The focus of the 18th GCSM relies on **Manufacturing driving the Circular Economy**.

The following areas of application are addressed:

- Sustainable Manufacturing Technologies for the Mobility, Energy and Construction Sector as well as for Machinery and Equipment Manufacturing
- Artificial Intelligence for Sustainability

These application areas were selected based on their relevance for sustainable manufacturing as well as the high environmental impact the cause, especially due to greenhouse gases emissions.

Our GSCM:

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.

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

Best regards,

Holger Kohl, Franz Dietrich and Günther Seliger

Deadlines

Abstract submission:	March 22, 2022
Notification of abstract acceptance/rejection:	April 2, 2022
Full paper submission:	May 7, 2022
Notification of full paper acceptance/rejection:	July 5, 2022
Deadline for the final manuscript submission:	July 24, 2022

Registration fees

In Berlin

Early bird	€ 600	On or before August 7, 2022
Regular	€ 650	On or before August 31, 2022
On-site	€ 700	After August 31, 2022
Extra Paper	€ 200	

Virtual Conference

Early bird	€ 350	On or before August 7, 2022
Regular	€ 400	On or before August 31, 2022
Extra Paper	€ 200	

Publication

All accepted papers will be published as open access in the Book Series "Lecture Notes in Mechanical Engineering" (<https://www.springer.com/series/11236>).

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

- Circular economy and 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

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

Crosscutting Topics in Sustainable Manufacturing

- Circular economy
- CO2 neutral production
- Strategies and business models
- Industry 4.0 and sustainable manufacturing
- Metrics for sustainable manufacturing
- Education and workforce development
- Sustainable smart cities

