

GCSM at a Glance

2003  I. GCSM Huntsville	2004  II. GCSM Berlin	2005  III. GCSM Shanghai	2006  IV. GCSM Sao Carlos	2007  V. GCSM Rochester	2008  VI. GCSM Pusan
2009  VII. GCSM Madras	2010  VIII. GCSM Abu Dhabi	2011  IX. GCSM St. Petersburg	2012  X. GCSM Istanbul	2013  XI. GCSM Berlin	2014  XII. GCSM Johor Bahru
2015  XIII. GCSM Ho-Chi-Minh-City	2016  XIV. GCSM Stellenbosch	2017  XV. GCSM Haifa	2018  XVI. GCSM Lexington	2019  XVII. GCSM Shanghai	2022  XVIII. GCSM Berlin
2023  XIX. GCSM Buenos Aires	2024  XX. GCSM Ho-Chi-Minh-City	2025  XXI. GCSM Bologna	2026  XXII. GCSM Colombo		

Colombo, Sri Lanka

Welcome to Colombo, Sri Lanka's lively coastal capital and an inspiring setting for GCSM 2026. As a city where modern industry, urban development, and cultural heritage intersect, Colombo offers a dynamic environment for exploring how manufacturing is evolving in today's world. You will find a city in motion, home to active ports, growing industrial zones, and vibrant universities engaged in research that supports more efficient and responsible production practices. While Colombo continues to develop rapidly, ongoing efforts to improve waste management, energy efficiency, and urban planning provide a meaningful context for conversations about sustainability in manufacturing.

Beyond the conference, Colombo offers plenty to discover: the colourful bustle of Pettah Market, the colonial architecture of Dutch Fort, sunset strolls along Galle Face Green, and a food culture that blends local flavours with global influences. Its warm hospitality, coastal landscapes, and easy access to the rest of the island make it an energising place to learn, collaborate, and explore.

Join us in Colombo for a conference experience that combines academic engagement with the sights, sounds, and spirit of one of South Asia's most vibrant cities.

Ayubowan!

Welcome to Sri Lanka.

The Venue

Technical Host:

The 22nd GCSM will be hosted by the University of Moratuwa (UoM) in collaboration with the University of Peradeniya, University of Ruhuna, University of Sri Jayewardenepura, and the Open University of Sri Lanka – representing premier institutions in engineering education and research in Sri Lanka. Together, they have a longstanding tradition of producing highly skilled engineers and driving technical innovations that have contributed to development both locally and globally. With strong commitments to excellence across disciplines essential to sustainable manufacturing, the UoM led team is dedicated to delivering an exceptional conference experience that fosters knowledge exchange and networking.



University of Moratuwa, Sri Lanka

Conference Venue: Cinnamon Lakeside Colombo

Set beside the tranquil Beira Lake in the heart of Colombo, Cinnamon Lakeside offers an exceptional venue for international conferences. The hotel features state-of-the-art meeting facilities, elegant ballrooms, and advanced technology to support academic presentations and global networking.

Contact

International Chairs

Prof. Dr.-Ing. Holger Kohl, Prof. Dr.-Ing. Franz Dietrich, Prof. Dr.-Ing. Günther Seliger and Prof. Fazleena Badurdeen

Honorary Chair

Prof. I.S. Jawahir

National Chairs

Dr. JR Gamage and Dr. Asela K. Kulatunga

Website: www.gcsm.eu

Email: gcsm@nu.tu-berlin.de

September, 23 to 25, 2026

Colombo, Sri Lanka



Colombo Lotus Tower with the Beira Lake

22nd Global Conference on Sustainable Manufacturing



Circular Manufacturing for Sustainable Future



TECHNISCHE UNIVERSITÄT BERLIN



GPE
Global Production Engineering



UNIVERSITY OF RUHUNA
SRI LANKA



Fraunhofer
IPK



IRP
Sponsored by CIRP
International Academy
for Production Engineering



AHK
Delegation der Deutschen
Wirtschaft in Sri Lanka
Delegation of German Industry
and Commerce in Sri Lanka



Cinnamon Lakeside Colombo, venue of GCSM 2026

22nd GCSM

Contents:

The University of Moratuwa, TU Berlin (IWF) and Fraunhofer (IPK) are happy to welcome you to our 22nd GCSM. The focus of this year's conference lies on "Circular Manufacturing for Sustainable Future" and brings together global perspectives on advancing sustainable industrial production. The program explores application areas essential for sustainable manufacturing and highlights both the significant environmental impacts and the growing economic relevance of circular approaches. Additionally, this year's topics address the role of micro and small enterprises in circular transformation and regional pathways for circular ecosystems to facilitate sustainable manufacturing.

Our GCSM:

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 the core theme for our global conference, taking place annually since 2003 and coming to Sri Lanka for the first time. The conference aims to explore how advances in manufacturing engineering can be leveraged to address challenges and provide systematic and practical pathways for achieving sustainable manufacturing.

We look forward to meeting you in Colombo for the 22nd GCSM!

Best regards,

Holger Kohl, Franz Dietrich, Günther Seliger, Fazleena Badurdeen, JR Gamage and Asela Kulatunga

Deadlines

Abstract submission	March 2, 2026
Notification of abstract acceptance/rejection	March 5, 2026
Full paper submission	April 3, 2026
Notification of full paper acceptance/rejection	May 8, 2026
Deadline for the final manuscript submission	June 12, 2026

Registration fees

Early bird	€ 600	Until July 15, 2026
Regular	€ 650	Until August 15, 2026
On-Site	€ 700	Up to the conference
Extra Paper	€ 200	

Topics

Sustainable Materials and Products:

- Low carbon materials and critical raw materials
- Material recycling
- Product design, redesign and innovation
- Product recovery, reuse and remanufacturing
- Product life cycle, information and knowledge management
- Data-driven methods for materials and product sustainability
- Life cycle assessment, risk assessment
- Safe-and-Sustainable-by-design approaches
- Environmental Product Declarations

Sustainable Manufacturing Processes:

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

Sustainable Manufacturing Systems:

- Manufacturing system design
- Simulation tools for manufacturing system design/layout testing
- Sustainable supply chains
- Production planning for sustainable manufacturing

Crosscutting Topics:

- Sustainable business models
- Industry 4.0 and sustainable manufacturing
- Circular economy for sustainable manufacturing
- CO₂ neutral production
- Metrics for sustainable manufacturing systems
- Sustainable energy development and transition
- Policy design for sustainability
- Engineering education towards sustainable development
- Regional integration of sustainability in South Asia



Sri Lankan wildlife and the 5th century rock fortress Sigiriya

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>)