

Ho Chi Minh City, **Vietnam**

Ho Chi Minh City, formerly known as Saigon, is the economic heart of Vietnam. Situated on the banks of the Saigon River, the country's most populous city reflects the rapid growth of recent decades. The skyline of the first district symbolises the country's increasing prosperity. The main driver of this prosperity is the production of textiles and electronic products, the sustainability of which is becoming increasingly important in Vietnam.

In parallel with industrialisation, the country's urbanisation and increased use of finite fossil resources are creating environmental risks. This has led to a growing demand in Vietnam for a research landscape for sustainable transformation, including in production. This has been flourishing for several years and will continue to enrich the region.

After research in Vietnam was mostly organised by the state and carried out separately from universities, the Vietnamese-German University is now leading the way as a teaching and research university that combines education and research, making it the perfect venue for the GCSM.

Contact

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Venue

The VGU is a public Vietnamese university developed in close partnership with Germany, which is based on the principle of academic freedom, unity of teaching and research and institutional autonomy.

The VGU is committed to excellence in research and teaching in the fields of smart engineering, information technology as well as business and economic relevant to both local and global sustainable development.

The 20th GCSM will be held at the brand new modern campus of the Vietnamese German University (VGU) in Binh Duong. Inaugurated in November 2022, the campus features seminar rooms, lecture halls, canteens as well as modern facilities for events such as the GCSM.

GCSM at a glance

2012

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X. GCSM







2013



2014

XII. GCSM

Johor Bahru

2023



2015

Ho-Chi-

Minh-City

2024











October 9 to 11, 2024

Ho Chi Minh City / Binh Duong, Vietnam



20th Global Conference on Sustainable Manufacturing



Decarbonizing Value Chains















2011

IX. GCSM











20th GCSM

Contents:

The Vietnamese German University (VGU), TU Berlin (IWF) and Fraunhofer (IPK) are happy to welcome you to our 20th GCSM. The focus of this year's conference lies on "Decarbonizing Value Chains". Among this year's topics are application areas relevant for sustainable manufacturing as well as the high environmental and increasing economic impact. Additionally, this year's topics are relevant for the sustainable transformation in Vietnam.

Our GCSM:

The GCSM serves as a global forum for academics, researchers and specialists from universities, research institutions 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 the global south as well as education and workforce development for advancing sustainable manufacturing. Sustainable manufacturing, are buzzwords for our annual global conference since 2003 and returning to Vietnam for the second time after almost 10 years. The conference aims to exploit manufacturing engineering potentials for bridging the gap between awareness on sustainability challenges and means to systematically and specifically cope with them.

We look forward to meeting you in Binh Duong for the 20th GCSM!

Best regards, Holger Kohl, Franz Dietrich, Günther Seliger and Ha Thuc Vien

Deadlines

Abstract submission

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Notification of abstract acceptance/rejection	April 19, 2024
Full paper submission	June 24, 2024
Notification of full paper acceptance/rejection	July 19, 2024
Deadline for the final	August 2, 2024

Registration fees

€ 200

manuscript submission

Early bird	€ 600	On or before August 9, 2024
Regular	€ 650	On or before September 13, 2024
On-Site	€ 700	After September 13, 2024



Publication

Exra Paper

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

April 4, 2024

Sustainable Materials & 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
- · Life cycle assessment, risk assessment
- Sustainable business models

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

Sustainable Manufacturing Systems:

- Manufacturing system design
- Simulation tools for manufacturing system design/layout testing
- Sustainable supply chain
- Data usage and sustainable manufacturing/ production planning
- Metrics for sustainable manufacturing systems

Crosscutting Topics:

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