



Contact

Ing. Sebastián Mur, Local Chairman

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

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

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

E-Mail: gcsn@mf.tu-berlin.de

Website: www.gcsn.eu

December 4 to 6, 2023

Buenos Aires, Argentina



Buenos Aires, Argentina

The City of Buenos Aires -also called the Federal Capital for being the seat of the federal government- is the capital of the Argentine Republic. It's population is 3.1 million people.

The urban fabric resembles a fan that limits to the south, west and north with the province of Buenos Aires and to the east with the river known as Río de la Plata.

The metropolis is an autonomous city, and is one of the 24 districts in which the country is divided.

Due to many immigration currents all over the 20th century, its urban profile is markedly eclectic, and stands out for having a very active cultural life which you are very welcome to enjoy.

Argentina has plenty of agricultural and livestock products and traditional energy resources such as oil and gas, but there are also developments about renewables such as solar and wind power, as well as lithium, which is essential for electric mobility.

Our country has highly qualified human resources, having been a pioneer in the nuclear industry in Latin America, and is currently very active in the so-called knowledge economy, developing solutions that allow manufacturing processes to be digitalized, optimized, and made more sustainable.

The fact of holding GCSM in this amazing City of Buenos Aires is an excellent opportunity to promote the topic of Sustainable Manufacturing in Latin America, where everything is yet to be developed but where great opportunities and potential abound. We believe that promoting the interaction of companies with universities and their research projects in this topic is one of the best ways to promote and drive such an urgent issue for the entire world.

Venue

The 19th GCSM will take place at the ITBA Financial District university campus in downtown Buenos Aires, Argentina. The Instituto Tecnológico de Buenos Aires has two other sites where undergraduate classes for business, data Analytics and engineering majors take place in collaborative open areas and laboratories that promote joint projects between students, faculty, and researchers. The beautiful city of Buenos Aires, in addition to being especially attractive because of its prolific cultural activity, is home to a group of universities, institutes, research centers, and companies that work on diverse projects to make industrial and manufacturing processes more sustainable.

Past Conferences

2003 	2004 	2005 	2006 	2007 	2008 	2009
2010 	2011 	2012 	2013 	2014 	2015 	2016
2017 	2018 	2019 	2022 	2023 		

19th



Global Conference on Sustainable Manufacturing

GCSM

*"Sustainable Manufacturing as
a Driver for Growth"*





19th GCSM

Contents:

Instituto Tecnológico de Buenos Aires (ITBA), TU Berlin (IWF) and Fraunhofer (IPK) would be happy to welcome you to our 19th GCSM. The focus of the 19th GCSM relies on **Sustainable Manufacturing as a Driver for Growth**.

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 and increasing economic 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 returning to South America for the second time in 19 years. 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 Buenos Aires for the 19th GCSM!

Best regards,

Holger Kohl, Franz Dietrich, Günther Seliger and Sebastian Mur

Deadlines

Abstract submission:	May 19, 2023
Notification of abstract acceptance/rejection:	June 2, 2023
Full paper submission:	July 7, 2023
Notification of full paper acceptance/rejection:	September 5, 2023
Deadline for the final manuscript submission:	September 22, 2023

Registration fees

Early bird	€ 600	On or before September 31, 2023
Regular	€ 650	On or before October 31, 2023
On-site	€ 700	After October 31, 2023
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 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

