



## AC21 Legacy International Symposium

International research and education collaboration within SDG 3, 7 & 9 to contribute to a sustainable world.

8 - 10 November 2023, Stellenbosch, South Africa

Coordinated by

universität freiburg



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Researchers, emerging young scholars and postdocs are invited to participate in the Symposium through short presentations within each SDG track and to explore international education and research collaboration within the topics:

Track 1: SDG #9 Industry, Innovation, and Infrastructure University of Strasbourg

Keynote introduction: Prof. Bertrand Rose, Industrial Engineering, Faculty of Physics and Engineering

**“From lean and green to lean and safe: seeking for more and more sustainable performance”**  
The combination of environmental performance and a continuous improvement approach aimed at the joint elimination of Lean and Green waste in production processes offers synergies and significant gains in both environmental and economic terms. The major problem with this combination lies in the implementation of ad hoc tools within manufacturing companies with different processes and cultural characteristics. In recent years, the emphasis has shifted from lean and green to lean and safety. Based on an ongoing analysis of the state of the art and surveys of best practices, our research work includes several evaluations and observations on industrial sites. The development of an adaptable deployment roadmap, highlighting the social aspects through the involvement and enhancement of employees, is thus presented.

Track 2: SDG #7 Affordable and Clean Energy Universität Freiburg

Keynote introduction: Prof. Dr. Anke Weidlich, Chair for Control and Integration of Grids, Department of Sustainable Systems Engineering INATECH

**“Pathways to Net Zero Energy Systems”**

Keynote introduction: Dr. Lokotola Christian Lueme, Researcher in climate change and air pollution impact on human health, Planetary Health, Family Medicine and Primary Care

### “Planetary Health, Migration and Primary Health Care”

Climate change is one of the important ecological drivers of changes in air quality, food production, infectious disease exposure, access to fresh water and exposure to natural hazards, such as extreme weather events. It is described as the biggest threat of human health that challenges the population health and the healthcare service delivery. Anthropogenic greenhouse gas emission has significantly increased global temperatures and led to adverse impacts of climate change. It is important to know how to improve the resilience of primary health care (PHC) facilities and services and to help them prepare for the challenges of climate change. Resilience is seen as the ability to prepare for, respond to and recover from significant public health challenges. Primary health care is the portal of entry to healthcare services and the foundation of effective health systems that provide universal health coverage. Unfortunately, in the African context, PHC is often poorly developed, in terms of both access and quality that can reduce the vulnerability of communities to climate change impacts.

### FRAMEWORK

Each Track will have a 3 hour session at the Symposium starting with the presentation from the keynote speaker and discussion (45 minutes). This will be followed by 2-3 panels with short presentations (10-15 minutes each) related/within the broad topic introduced by die keynote speaker.

Presenters selected will receive USD1,000 towards covering their travel costs, whilst on-site costs (airport transfers, accommodation and most meals) will be covered. There is no conference registration fee.

Stellenbosch University will also invite participants from partners in Africa to contribute to the programme and discussions.

### TIMELINE

11 October 2023	Closing date for abstracts
18 October 2023	Final programme announced
25 October 2023	Final registrations
8 - 10 November 2023	Symposium (hybrid event)
8/11	Arrivals (also 7/11) and opening event (Evening)
9/11	Track 1 (morning); Track 2 (afternoon); Symposium dinner (evening)
10/11	Track 3 (morning); Afternoon: visits to SU labs, meeting of international office colleagues, visit to wine estates and closing dinner

### ENQUIRIES

Robert Kotzé, SU International [rk@sun.ac.za](mailto:rk@sun.ac.za)

You are warmly invited to contribute to the AC21 Legacy International Symposium!

