



Special Interest Group:

Precision Engineering for Sustainability

15th - 16th October 2024

Kern Microtechnik GmbH
Eschenlohe, Bavaria
Germany



Precision machines have long been at the forefront of one industrial revolution after another to enable the turning of ideas into the economical production of physical objects. In all likelihood the emerging Sustainable Revolution could be the start of a new golden age for the planet, humanity, and precision engineering.

Whilst there is no shortage of renewable energy systems available at ever-decreasing costs, a concern is they are not evolving fast enough to help us economically transition to a low carbon economy. The purpose of this workshop is thus to bring together people from academia, industry, and government to share experiences with using precision engineering principles to help develop new ideas and manufacturing systems to reduce production and ownership costs related to realizing a global carbon neutral (or ideally negative) economy.

Areas of interest include automated precision production of components and systems ranging from manufacture of solar cells and panels to their installation and maintenance; to ever larger wind turbines on and offshore including in-situ manufacturing of ever larger elements; to energy storage systems from batteries to hydro power systems.

We are seeking papers in **Precision Engineering for Sustainability** and their production in the following categories, however contributions are not exclusive to these:-

Topics

- Energy storage
- Renewable energy generating machines
- Circular economy (Design for (re-)manufacturing and recycling)
- Green hydrogen & machine measurement
- Manufacturing machine tool efficiency (energy efficiency)
- Waste processing

For each of these areas, how can production and quality be increased while lowering costs and increasing quality? Can precision production methods from other industries be of help for the topics above?

Key dates

7th June 2024	Short Abstract Submission Deadline
14th July 2024	Extended Abstract Submission Deadline
25th August 2024	Notification of Presentation Award (Oral/Poster)
25th August 2024	Registration Opens

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