

# CALL FOR ABSTRACTS AND POSTERS

# DOC2025

8<sup>TH</sup> DOCTORAL COLLOQUIUM  
BIOENERGY & BIOBASED PRODUCTS

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SEPTEMBER 10-12, 2025 | STUTTGART

## Discover the transformative power of bioenergy and biobased products in shaping our sustainable future!

From September 10<sup>th</sup> to 12<sup>th</sup>, 2025 the 8<sup>th</sup> Doctoral Colloquium BIOENERGY AND BIOBASED PRODUCTS (DOC2025) will be hosted in Stuttgart by the ValBio-Network of the University of Stuttgart.

With this CALL FOR ABSTRACTS AND POSTERS we ask for contributions to create an exciting programme of this Doctoral Colloquium. We invite all interested young scientists to submit an abstract on their PhD work to be presented either as a poster or an oral presentation.

### BACKGROUND

Launched in 2018 with a primary focus on bioenergy topics the Doctoral Colloquium has since evolved into an international platform on bioenergy, biobased products. This year, it extends its thematic reach to encompass research on biotechnology and bioeconomy, reflecting the current political and economic development.

Biomass is the only renewable carbon source that we have. The biosphere is also a fascinating cosmos of sustainable interdependencies and solutions. As a "limited" resource, sustainable and efficient utilisation requires novel and innovative approaches and processes (e.g. cascading, coupling). Research on bioenergy and biobased products, as well as system integration, demonstrates well how biomass and biobased resources can contribute to transforming various sectors (chemical, pharmaceutical, construction, etc.) to high-quality processes and products.

Research in this area is already diverse and at a high level. However, many questions are open. Also, networking in the research community needs to be strengthened in order to deepen the exchange of knowledge and exploit synergies and research excellence in a more efficient and innovative way.

Since its foundation, the Doctoral Colloquium BIOENERGY AND BIOBASED PRODUCTS has served not only as a platform for the further qualification of young researchers, but also as an opportunity for networking and scientific exchange. Doctoral researchers from universities and research institutions present and discuss their latest results and progress.

This year, the 8<sup>th</sup> Doctoral Colloquium BIOENERGY AND BIOBASED PRODUCTS will be organised under the scientific coordination and direction of Prof. Dr.-Ing. Ralf Takors and Dr. Ludger Eltrop, Senior Scientists at the University of Stuttgart. Prof. Ralf Takors is head of the Institute of Biochemical Engineering and leading scientist of the ValBio-Network ("Valorization of Bioresources"). Dr. Ludger Eltrop is Head of Department SEE at the Institute of Energy Economics and Rational Energy Use.

The Programme Committee carefully curates the papers for both oral and poster presentations, with guidance from the esteemed Scientific Advisory Board consisting of 47 renowned scientists from Germany, Austria, Switzerland, Italy and Norway, representing 37 research and higher education institutions working on bioenergy and biobased products. A detailed list of all participating scientific institutions and members can be found on our website at [www.doc-bioenergy.de](http://www.doc-bioenergy.de).

## TARGET GROUP

The Doctoral Colloquium BIOENERGY AND BIOBASED PRODUCTS offers you as a young student pursuing your PhD in this field an opportunity to present your work and enter into a professional discussion and exchange. You are welcome at all stages of your dissertation and work. You have the chance to present your scientific approach, methods and results in form of an oral presentation or a poster. As a knowledge and decision-maker of tomorrow you can share knowledge, discuss research gaps and meet colleagues and experienced supervisors.

## TOPICS AND THEMES INCLUDE, BUT ARE NOT LIMITED TO

The Doctoral Colloquium BIOENERGY AND BIOBASED PRODUCTS addresses all components of the biomass conversion chain, from the feedstock via conversion technologies up to the resulting products and services. It also addresses overarching aspects e.g. of economics, environment or social questions and includes work on system analysis and system integration. Work on biological principles and knowledge round off the topic. Contributions can be made in the following five main research areas:

### SUSTAINABLE RESOURCE BASE

- Sustainable biomass feedstocks
- Waste as feedstock
- Pre-treatment
- Environmental impacts

### BIOENERGY SYSTEM ANALYSIS (INCL. TECHNICAL INTEGRATION)

- Biomass production and provision
- Bioenergy integration in energy and bioeconomy systems
- Bioenergy & biobased products & climate
- Bioenergy & biobased products & sustainability

### THERMOCHEMICAL CONVERSION

- System integration
- Solid conversion products
- Feedstock composition
- Intermediates

### BIOCHEMICAL CONVERSION & BIOTECHNOLOGY

- New processes & products
- Microbial processes
- Optimisation & efficiency
- Monitoring & control
- Climate neutrality, integrating CO<sub>2</sub> and / or Corg

### BIOREFINERIES, BIOECONOMY & BIOFUELS

- Overall value chains
- Biorefineries as multiproduct plants for biobased products and bioenergy sources
- Biorefineries as part of SynBioPTX as well as BECCS approaches
- E-mobility and biofuels

## ORGANISATIONAL

The event language is English. Each Session has four presentation slots, split into 15 minutes of presentation and 10 minutes of discussion time each. All accepted posters are, in addition to the exhibition, to be presented during a Poster Speed Presentation (3 minutes each). The best poster is awarded during the closing ceremony of the colloquium. Furthermore, networking opportunities, such as a get-in-touch session, are planned. A Key-note Speech on a groundbreaking topic will round off the programme. Details of the programme are available on our website.

The Programme Committee will evaluate all abstracts submitted and decide on their acceptance.

## SUBMISSION

Submit an abstract of your research work for either an oral presentation or a poster by **April 30, 2025** via form you will find at [www.doc-bioenergy.de](http://www.doc-bioenergy.de).

## EVENT LOCATION

The 8<sup>th</sup> Doctoral Colloquium BIOENERGY AND BIOBASED PRODUCTS (DOC2025) takes place in the conference area of Campus Guest House on the main University Campus at Stuttgart, Vaihingen. The physical address is Universitätsstraße 28-34, 70569 Stuttgart.

## CONTACT

Please don't hesitate to contact us!

ValBio team at the University of Stuttgart, Allmandring 31, 70569 Stuttgart

See for more information: [www.doc-bioenergy.de](http://www.doc-bioenergy.de), [www.valbio.uni-stuttgart.de/en](http://www.valbio.uni-stuttgart.de/en)

### SCIENTIFIC DIRECTION

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