CALL FOR ABSTRACTS

BIOENERGY DOC2021

4TH DOCTORAL COLLOQUIUM BIOENERGY

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INTEGRATION OF BIOENERGY INTO BIOECONOMY

SEPTEMBER 13TH/14TH, 2021

ABOUT DOC2021

Bioenergy and Bioeconomy both are essential elements of future sustainable economy to supply energy in form of heat, power and fuels as well as to provide chemical intermediates and life science products based on biomass. Bioenergy today is focussed on the production of heat, electrical power and fuels providing around 12 % of final energy in Germany. However, both bioenergy and bioeconomy have the potential of a significant, synergetic overlap. In a bioeconomy, where biomass is increasingly used as a feedstock to produce chemicals, materials, and fuels also the energy to obtain these products needs to be renewable in order to achieve significant greenhouse gas reductions. Chemical industry is one of the most energy intensive industrial branches requiring around one quarter of the energy consumed in manufacturing industries. The by-production of energy in biorefineries by cascaded use of biomass and within hybrid processes is an essential pre-condition for maximum GHG savings.

In both areas, Bioenergy and Bioeconomy, excellent research is carried out in Europe across natural, engineering, economic, social and other sciences. The European-wide annual Doctoral Colloquium Bioenergy DOC2021 provides an excellent opportunity for tomorrow's scientists and decision-makers of established institutions for open-minded, transdisciplinary networking to exchange information on recent research and improve own knowledge and skills. In addition, supervising senior scientists are available for networking and specific information on PhD theses is provided.

This year, the 4th DOC2021 Doctoral Colloquium Bioenergy will be organized on September 13th/14th, 2021 by the Institute of Catalysis Research and Technology (IKFT) of Karlsruhe Institute of Technology (KIT) in cooperation with DBFZ in Leipzig and supported by the Scientific Advisory Board, which comprises more than 40 renowned bioenergy scientists from Germany, Austria, Switzerland and Norway. A detailed list of all participating scientific institutions and members can be found on our website at www.doc-bioenergy.de. A final decision on the format, online or in presence, will be taken in June 2021.

Young scientists from all over in Germany, Austria and Switzerland are invited to join the DOC2021 for scientific discussion in one of the most significant research areas. The Colloquium will held in cooperation with the BBWForWerts Graduate School created within the Bioeconomy Research Program in Baden-Württemberg.

BIOECONOMY GRADUATE PROGRAM BBW FORWERTS

Interested participants are invited to contribute to the colloquium by oral or poster presentations. Please, submit your abstracts in order to join the 4th German Doctoral Colloquium on Bioenergy.

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TARGET GROUP

Doctoral students from research groups doing research in natural, engineer, economic or social sciences on Bioenergy or Bioeconomy

THEMES AND TOPICS INCLUDE, BUT ARE NOT LIMITED TO:

Sustainable resource base

- Which feedstocks can be utilized for energy production?
- What kind of pre-treatment is required?
- What is the potential of bioenergy?

Bioenergy system analysis

- How can bioenergy be integrated into the overall energy system?
- What are suitable integration parameters?
- How can the material and energy provision from biomass be optimised?
- What is an adequate allocation between material and energy use?
- How can the economic, environmental and social performance of bioenergy systems be optimized.
- How can biomass use contribute to achieve overall sustainability aims like net zero energy systems, carbon neutrality or SDG?

Thermochemical conversion

- How to improve efficiency in thermochemical processes?
- In which way feedstock composition affects process operation and product properties
- What upgrading steps are required to convert intermediates from thermochemical conversions into products

Biochemical conversion

- What are new process routes and products?
- Which processes for downstream processing are efficient?
- How can microbial processes be improved?

Biorefineries/Biofuels

- What are promising full value chains in bioeconomy?
- In which way can bioenergy be implemented into biorefineries?
- How can we supply biorefineries with renewable energy?

ABSTRACT SUBMISSION

We look forward to receiving your abstract (max 3,000 characters) by June 18th, 2021.

Please use the online application form on the homepage: www.doc-bioenergy.de

Please follow the outline of the template carefully. The abstract will be compiled in a book of abstracts available to all participants.

The abstracts submitted will be reviewed by the program committee members. The program committee may approve a submission for poster or oral presentation.

MISCELLANEOUS

Conference language is English.

The lectures and posters should be written in English. Lectures are scheduled for 20 minutes each. Posters will be presented by speed presentation at the beginning of the poster sessions. The best poster will be awarded during the closing session of the colloquium.

REGISTRATION FEES

includes meeting documents, coffee and lunch breaks, guided tours, welcome reception and dinner

	Early bird (until June 30th)	**regular** (until September 6th)
Doctoral students	50 €	70 €
Others	100 €	120 €

VENUE (TO BE CONFIRMED)

Karlsruhe Institute of Technology (KIT)
Campus North
Fortbildungszentrum Technik und Umwelt (FTU)
Hermann-von-Helmholtz-Platz 1
76344 Eggenstein-Leopoldshafen

PROGRAM SCHEDULE

Sunday, September 12th, 2021
19:00 Get together

Monday, September 13th, 2021
08:30 Guided laboratory and plant tour
10:30 Registration
11:00 Introducing statements by seniour scientists
11:45 Lunch and network break
12:30 Parallel sessions
14:00 Key not lecture on bioeconomy
15:00 Poster session
18:00 Side program
19:00 Get-together and networking

Tuesday, September 14th, 2021
08:30 Statements by PdD students
09:30 Parallel sessions
11:00 Coffee break
11:30 Get in Touch
13:00 Lunch break
14:00 Parallel sessions
15:30 Conclusions, poster price and Farewell
16:00 End of DOC2021