Fuel Science - From Production to Propulsion

10th International Conference

Call for Papers and Posters

Be part of the conference “Fuel Science – From Production to Propulsion” – the well-known conference on fuel science which is now held for the tenth time by the Cluster of Excellence “The Fuel Science Center – Adaptive Conversion Systems for Renewable Energy and Carbon Sources”! This conference is open to participants from science and industry interested in challenges and solutions regarding novel biofuels and synthetic fuels from regenerative energy and alternative carbon sources. The conference focuses on chemical transformation of regenerative electricity, bio-based carbon feedstocks and CO_2, molecular interactions and clean combustion systems. It will take place from **May 10 to 12, 2022 at the Eurogress in Aachen, Germany**. #fuelscience2022

FSC The Fuel Science Center | RWTH AACHEN UNIVERSITY

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We would like to invite you to contribute to this conference with either an oral presentation or a poster of your work in the below mentioned fields. Please use our template to send in a summary of your topic and preferred presentation type (oral or poster) to the Cluster Office (info@fuelcenter.rwth-aachen.de) by latest **February 28, 2022**. You can also find the template by scanning the QR-Code below. In case of any questions regarding the submission or the conference in general, please do not hesitate to contact the Cluster Office. More information on the FSC and the Cluster Office can be found on www.fuelcenter.rwth-aachen.de.

The Following Topics Will Be Adressed in Separate Sessions During the Conference

- Synthetic, alternative fuels by utilization of regenerative electricity and carbon dioxide
- System perspective & sustainable value chains
- Impact of renewable fuels on environment, economics, and society
- Catalytic synthesis and conversion of biomass-based streams in combination with other renewable resources to platform molecules and fuels
- Combustion process and exhaust gas aftertreatment optimization of renewable fuels
- Mixture formation and ignition processes of renewable fuels

Information on the Cluster of Excellence “The Fuel Science Center”

The Cluster of Excellence “The Fuel Science Center – Adaptive Conversion Systems for Renewable Energy and Carbon Sources” (FSC) has just recently been established at RWTH Aachen University. The Cluster generates fundamental knowledge as well as novel scientific methodologies to replace today’s fossil fuel-based static scenario by adaptive production and propulsion systems that are based on renewable energy and carbon resources under dynamic system boundaries. The fundamental research in FSC aims to integrate renewable electricity with the joint utilization of bio-based carbon feedstocks and CO_2 to provide high-density liquid energy carriers (“Bio-hybrid Fuels”), which enable innovative engine concepts for highly efficient and clean combustion.

Together with Forschungszentrum Jülich, Max Planck Institute for Chemical Energy Conversion as well as MPI für Kohlenforschung at the Campus Mülheim a. R. and RWTH Aachen University, a world-class research environment is formed. FSC strengthens disciplinary competences in natural sciences, engineering sciences, and social sciences and converges them in a dynamic team science approach.

Contact

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#fuelscience2022

To stay up to date on the latest news and announcements as well as current events of the Cluster of Excellence, feel free to visit our website or follow us on Facebook, Twitter, Youtube or LinkedIn.

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