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 twelfth 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 CO₂, molecular interactions and clean combustion systems. It will take place from June 11 to 13, 2024 at the Eurogress in Aachen, Germany. #fuelscience2024
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 CO₂ 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.

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

Contact

Fuel Science Center
RWTH Aachen University
Dr.-Ing. Bastian Lehrheuer
Schrinkelstraße 8
52062 Aachen, Germany
Tel.: +49 241 80 95352
info@fuelcenter.rwth-aachen.de
www.fuelcenter.rwth-aachen.de

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, LinkedIn, YouTube or Instagram.