

Announcement and Call for Papers

51st International Annual
Conference of the Fraunhofer ICT
June 29 - July 2, 2021

Convention Center,
Karlsruhe, Germany

Energetic Materials

Exploring and
Understanding



Fraunhofer

ICT

51st International Annual Conference of the Fraunhofer ICT



International Annual Conferences of the Fraunhofer ICT...

... with a different emphasis each year, cover scientific and technological progress in the entire field of energetic materials and the related disciplines. Held annually for over 50 years, the conferences have gained worldwide importance, with hundreds of participants from more than 30 nations each year. The conferences are held in Karlsruhe's Convention Center, one hour south of Frankfurt International Airport.



Energetic Materials – Exploring and Understanding

For decades, energetic materials have been the subject of research and development in many areas including synthesis, processing and characterization. Established materials – which have been in service for many years – are understood in more detail and new materials with special properties are sought and discovered. In this respect both well-known methods and new techniques such as data mining or new experimental technologies are important. The impact of these new techniques is as yet unforeseeable, but they open up new and interesting possibilities.

The 51st International Annual Conference of Fraunhofer ICT addresses the full spectrum of research and development, from better understanding, improved processing and new formulations to the synthesis of new and interesting compounds, providing both in-depth knowledge and new perspectives.

Scientists participating in this conference have the opportunity to present their results and discuss them with their peers, to learn about the needs of the armed forces and to contribute their ideas for the future of energetic materials.

Chairman of the Conference

Moritz Heil

Fraunhofer ICT, Pfinztal, Germany

Announcement and Call for Papers

The Fraunhofer Institute for Chemical Technology is holding its 51st International Annual Conference on:

Energetic Materials – Exploring and Understanding

Main topics

- New energetic materials
- Synthesis and processing
- New experimental and data-driven methods
- Simulation and modelling

Presentation

Contributions to the conference can take the form of oral presentations (presentation time 20 minutes including discussion) or posters. Please submit an extended abstract not exceeding 500 words with optional figures and tables together with the exact title and name of the author(s). The papers will be published in the Conference Proceedings which will be available at the beginning of the event. Guidelines on how to prepare the text for publication will be sent to the authors.

Conference language

English

Deadlines

Abstracts (to manuela.wolff@ict.fraunhofer.de)
Reply to authors
Full papers

December 17, 2020
February/March 2021
April 2021

The program will be published in April 2021.



The Fraunhofer Institute for Chemical Technology ICT

The Fraunhofer ICT in Germany is a unique research and development facility with competence in the fields of energetic materials, energetic systems, polymer engineering, applied electrochemistry and environmental engineering. It comprises the entire spectrum from basic research tasks to application in products according to its customers' needs. In the field of propellants and explosives the Fraunhofer ICT, with its 500 employees, is the only research institute in Germany to perform contractual research for the Federal Ministry of Defence, the national and international defence industry as well as commercial clients. Founded in 1959, the Fraunhofer ICT has gained an international reputation, especially in the fields of:

- Material and processing technology
 - Formulation, characterization and manufacturing of energetic and polymeric materials
 - Mechanical and chemical processing technology
 - Substance and material properties and structure analysis
- Combustion, reaction kinetics
 - Physical and chemical analysis of combustion and detonation phenomena
 - Energy balance and conversion
 - Sensor technology
- Environmental and safety engineering
 - Gas explosions and hazards
 - Environmental testing
 - Waste disposal and recycling



Conference Management

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