

FRAUNHOFER INSTITUTE FOR PRODUCTION TECHNOLOGY IPT
FRAUNHOFER INSTITUTE FOR LASER TECHNOLOGY ILT

PRESS RELEASE

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Digital ICTM Conference 2022: Achieving climate targets in turbomachinery engineering through digitization

The effects of climate change are leading to a change of perspective not only in industry and society: Manufacturers and suppliers of engines and stationary turbomachinery have long recognized that the overriding goals of conserving resources and reducing emissions can now only be achieved if they are able to implement both evolutionary and revolutionary concepts along the entire product life cycle. How to succeed in meeting the associated challenges in the manufacture and repair of turbomachinery is the central question of the sixth ICTM Conference, which will be held on February 16 and 17, 2022, which will be held completely digitally for the first time. Discounted early bird tickets are available until January 23 and online registration is open until February 11, 2022.

The event, organized by the Aachen-based Fraunhofer Institutes for Laser Technology ILT and for Production Technology IPT, offers participants up-to-date information and exchange on new developments surrounding trends in the turbomachinery industry. On both days of the conference, experts from industry and research will offer comprehensive insights into trends in the manufacture and repair of turbomachinery, including keynote presentations by Dr. Gregor Kappmeyer of Rolls-Royce Deutschland and Professor Thomas Thiemann of Siemens Energy Global.

Comprehensive program for experts from industry and research

In the sessions on digitization, high-performance machining, additive manufacturing, and material and process qualification, speakers such as Dr. Oliver Arnold, MTU Aero Engines, Dr. Daisuke Murakami of Sumitomo Electric Industries, Dr. Steffen Bayer, Ariane Group, and Adeline Riou, Aubert & Duval, will share their expert knowledge of turbomachinery manufacturing with participants.

Accompanying the presentations, conference participants will have the opportunity to exchange ideas digitally with experts from industry and science about the challenges facing their industry. Close practical relevance is ensured by live digital presentations in the shopfloors and laboratories of Fraunhofer ILT and IPT: Here, the engineers from Aachen show application examples for the integration of newly developed technologies up close.

To accommodate the international audience, the organizers have placed the first day of the event in the afternoon (12:30 a.m. to 5:15 p.m. CET) and the second day of the

Editorial

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event in the morning (9:00 a.m. to 1:00 p.m. CET). The presentations will be recorded and will be available to participants afterwards.

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International Center for Turbomachinery ICTM Aachen

The International Center for Turbomachinery ICTM Aachen is a joint initiative of the Fraunhofer IPT, the Fraunhofer ILT as well as the Laboratory for Machine Tools and Production Engineering WZL and the Chair for Digital Additive Production DAP of the RWTH Aachen University. It represents the entire technology portfolio of the participating institutes – with the aim of offering excellent research and development for turbomachinery manufacturing and repair. In cooperation with industrial partners, the ICTM Partner Community was initiated to accelerate technological innovations and transfer them into industrial applications.

For the full conference program and link to online registration, visit www.ictm-aachen.com/en/Conference.html

The **Fraunhofer Institute for Production Technology IPT** combines many years of knowledge and experience from all areas of production technology. In the areas of process technology, production machinery, production quality and metrology, and technology management, the Fraunhofer IPT offers its customers and project partners applied research and development for networked, adaptive production. The institute's range of services is geared to the individual tasks and challenges within specific industries, technologies and product areas, including automotive manufacturing and suppliers, energy, life sciences, aerospace, mechanical and plant engineering, optics, precision and microtechnology, and tool and die making.

With more than 500 employees and more than 19,500 m² net floor space the **Fraunhofer Institute for Laser Technology ILT** is worldwide one of the most important development and contract research institutes in the field of laser development and laser application. The activities cover a wide range of areas such as the development of new laser beam sources and components, precise laser based metrology, testing technology and industrial laser processes. This includes laser cutting, caving, drilling, welding and soldering as well as surface treatment, micro processing and additive manufacturing. In the field of quantum technology, the Fraunhofer ILT is developing photon sources and photonic components and systems, for example for the use in quantum computers and the quantum internet.

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