

Germany

ceramitec conference + exhibition 2021: First Look Program (FORUM 1 + 2)

Ceramitec, originally scheduled for May 2021, has been postponed to June 2022 on account of the reduced possibilities for worldwide travel. On a smaller scale, the ceramitec conference + exhibition will take place in one of the halls at the trade fair grounds in Munich/DE from 22–23 June 2021. This event will be held parallel to the “automatica sprint”. The resulting overlaps make a visit to the free-entry trade fair an attractive prospect.

Working together with Fraunhofer HTL/DE, IAPK/DE and the Expert Group CIM/DE as partners, CERAMIC APPLICATIONS will organise a two-track conference in FORUM 1 and FORUM 2, which will be complemented by AM Ceramics organised by Lithoz/AT in FORUM 3. In FORUM 1 on 22 June, the Plenary Lecture will be given by Prof. Dr Alexander Michaelis, Institute Director at the Fraunhofer IKTS/DE. He will speak on the Common Initiative of the Federal Association of the German Ceramics Industry (BVKI), the German Ceramic Society (DKG) and the Research Council of the German Ceramic Society (FDKG) under the heading “Hydrogen Scene – Hydrogen for and with Ceramics”. After this lecture, in three FORUMS located in the exhibition hall a comprehensive program will be offered.

ceramitec conference + exhibition 2021

9.00–10.45

Welcome Address

Gerhard Gerritzen, Deputy Managing Director, Messe München GmbH/DE

Plenary Lecture

**Task Force Hydrogen: Hydrogen for and with Ceramics –
a Common Initiative
of the Federal Association of the German Ceramics Industry (BVKI)
and the German Ceramic Society (DKG)**

Prof. Dr Alexander Michaelis, Institute Director, Fraunhofer IKTS/DE

* Remark: The time schedule will be fixed as soon as FORUM 3 is defined.



Messe München

Connecting Global Competence

**ceramitec
conference
ready for its
next edition!**



**Don't miss:
June 22-23, 2021**

at Messe München

[www.ceramitec.com/en/trade-fair/
ceramitec-conference](http://www.ceramitec.com/en/trade-fair/ceramitec-conference)

From raw materials to process technology to industrial applications – the ceramitec conference will highlight the latest trends and a multitude of application possibilities. Join in and discuss your individual applications with experts from the

- automotive,
- aerospace,
- electrical,
- dental and
- medical engineering industries.

Enjoy two days of compact know-how transfer – and seize the opportunity to intensively network with well-known industry leaders.

**Ceramitec
conference**

FORUM 1, 22 June 2021

11.00–17.30

New Horizons for Additive Manufacturing (AM) of Ceramics

Organized by CERAMIC APPLICATIONS

Moderator Karin Scharrer, Editor-in-Chief,

CERAMIC APPLICATIONS, Götter Verlag/DE

**Keynote****Task Force Additive Manufacturing****– Together to a Productive Level of Ceramic AM**

Dr Tassilo Moritz, Task Force Additive Manufacturing DKG,

Senior Scientist, Fraunhofer IKTS/DE

11.30–12.30

New Materials / Additives for Enhanced Performance of AM-Technologies**SiC Narrow Grit for AM**

Anne Marie Moe, Manager Technology + R&D, Washington Mills/NO

Plant-Based Hydrocolloids and Biopolymers –**Bio-Based Solutions for Ceramic AM?**

Sascha Galic, Senior Product Manager, J. Rettenmaier & Söhne/DE

Ceramics and Metal AM by FFF Process and Use-Cases

Elisabeth To, Ingénieur technico-commercial, NanoE/FR

13.00–15.20

New Technologies for the Manufacture of AM-Parts**3D-Printing of Ceramic Structures via Material Jetting**

Alexander Kremer, TechCenter Additive Fertigung, Rauschert Heinersdorf-

Pressig/DE

AM by Extrusion of Ceramics

Torsten Seidel, Managing Director, ECT-KEMA GmbH/DE

Ceramic AM for New Space

Richard Gaignon, CEO, 3DCERAM Sinto/FR

Additive and Subtractive Manufacturing as a Complement to**Classical Manufacturing Techniques**

Andreas Philipp, Head of Business Unit Powder Injection Moulding,

maxon motor/DE

Making Binder Jetting Really Work for Technical Ceramics

Boris Agea-Blanco, Development Engineer, CerAMing/DE

Nanoparticle Jetting – the AM Avenue for High Definition and Complex Ceramic Parts

Dror Danai, Chief Business Officer, XJET/IL

16.00–17.20

Ceramic Components Made by AM – the Economic Alternative ?**CerAMufacturing of Ceramic-Based Multi-Material Components**

Dr Uwe Scheithauer, Researcher, Fraunhofer IKTS/DE

FORUM 2, 22 June 2021

11.00–17.30

High-Temperature Technologies

Organized by Fraunhofer HTL

Moderator Prof. Dr Friedrich Raether,

Director, Fraunhofer HTL



11.00–13.00

Thermoprocessing Equipment**Application of Electric Current Assisted Sintering****Techniques for Advanced Processing of Energy Materials**

Apl.-Prof. Dr Martin Bram, Team Leader, Institute of Energy and

Climate Research, Forschungszentrum Jülich/DE

Clean and Green – Opportunities and Challenges for Industrial Furnace Construction After the Corona Age

Andreas Hajduk, Sales Manager Technical Ceramics, Riedhammer

GmbH/DE

Debinding and Sintering under Advanced Atmospheres

Heinz-Jürgen Blüm, Managing Director, MUT Advanced Heating

GmbH/DE

Using Hydrogen in Ceramic Industry Kilns – H2 Hybrid Kilns Gaining Ground?

Hartmut Weber, Vice President Sales, CREMER Thermoprocessinganlagen

GmbH/DE

Concept and Benefits of Digital Furnace Twins

Dr Gerhard Seifert, Senior Scientist, Fraunhofer HTL/DE

High-Temperature Materials

14.00–15.40

Oxide/Oxide Ceramic Matrix Composites – Replacement Possibility for Metallic Alloys at High Temperatures

Walter Pritzkow, Managing Director, Keramikblech/DE

New Refractory Materials and Concepts for the Reduction of CO₂-Emissions of High-Temperature Processed

Dr Rainer Gaebel, Managing Director, Refratechnik Holding

GmbH/DE

Reaction Bonding of Mullite-Based Ceramics

Tabea Naemi Cegla, Researcher, Steuler KCH/DE

Ceramic Coatings for High-Temperature Applications

Jonathan Maier, Researcher, Fraunhofer HTL/DE

16.10–18.00

Process Development**The Challenge of Drying Technical Ceramics**

Markus Lindner, Design Manager, Lippert GmbH & Co KG/DE

Upscaling Processes for Advanced Ceramics from Laboratory into Industrial Production

Axel Weiland, Vice President New Business, Onejoon GmbH/DE

New Approaches of AM of Dense and Porous Ceramics for Advanced Refractory Applications

Dr Patrick Gehre, Scientist, Institute of Ceramics, Refractories and Composite Materials, TU Bergakademie Freiberg/DE

3D-Screen Printing of Solar Absorbers Made of SiSiC, Sintered in an Efficient High-Performance Furnace

René Kirchner, Head of Sales, FCT Systeme GmbH/DE;
Lisa Birkigt, Project Manager, Exentis Technology/CH

Breakeven Point for Ceramic AM is Now a Lot More Attractive

Dror Danai, Chief Business Officer, XJET/IL

17.20–17.30 Closing Words

FORUM 1, 23 June 2021

9.00–15.30

Industry 4.0 / Ceramic Components

Organized by CERAMIC APPLICATIONS
Moderator Karin Scharrer, Editor-in-Chief,
CERAMIC APPLICATIONS, Göller Verlag/DE



9.00–11.30

Progress of Industry 4.0 Concepts in the Ceramic Industry

Data Management in Production of Ceramic Membranes
Christian Goebbert, Managing Director, Nanostone Water/DE

Transformation from Manufactory to Smart Production

Wolfgang Heining, Project Manager, Lippert GmbH & Co KG/DE

Data-centric Smart Factory

Matteo Tellarini, Data Analyst, SACMI Innovation Lab, SACMI/IT

Redefining Interactions with High-Temperature Furnaces and Equipment ! Unlock AR Empowered Processes

Daniel Mirbach, Head of Marketing, Oculavis/DE

The Next Challenge in Digital Production with Powder Metal Presses

Herbert Gröbl, Competence Team IoT, DORST Technologies/DE

Panel Discussion (all speakers of this session)

12.00–15.30

Ceramic Components for Enhanced System Solutions

Environmental and Process Technology / Electronics Silicon Nitride Speciality Materials for Product and Process Innovation in Semiconductor and Analysis Technology

Dr Ulrich Degenhardt, Head of R&D, FCT Ingenieurkeramik/DE

EnerViT – Energy-Efficient Kiln Plants between Present and Future

Thomas Alten, Managing Director, Keramischer OFENBAU GmbH/DE

Debinding and Sintering Optimization via Apps

Dr Holger Friedrich, Senior Scientist, Fraunhofer HTL/DE

Energy Efficiency in Practice

Frank Veitengruber, Project Engineer, Forschungsgesellschaft für Energiewirtschaft mbH/DE

17.20–17.30 Closing Words

FORUM 2, 23 June 2021

9.00–10.30

CIM – Material Performance and High Functional Integration – Economic Solutions for Many User Industries



Panel Discussion

Organized by Expert Group CIM
Moderator Dr Moritz von Witzleben,
Managing Director, INMATEC Technologies GmbH/DE

Participants

Dr Karin Hajek, Sales Director, INMATEC Technologies/DE
Hartmut Walcher, Manager PIM Laboratory, ARBURG/DE
Harrie Sneijers, Sales Director, Formatec Technical Ceramics/NL
Jens Graf, Sales & Marketing Director, Kläger Spritzguss/DE
Phillip Ninz, Scientist, IFKB University Stuttgart/DE
Uwe Schnitzler, R&D Engineer, ERBE Elektromedizin GmbH/DE

11.00–13.00

Additive Manufacturing of Metals

Organized by IAPK
Moderator Dr Anke Kaletsch,
Deputy Managing Director, IAPK/DE



Keynote

Accelerating the LPBF Process by the Combination of AM and HIP

Dr Anke Kaletsch,
Deputy Managing Director, IAPK/DE

Efficient Production and Qualification of New Materials for the LPBF Process

Daniel Beckers, Head Metal Powder Production,
Rosswag engineering/DE

Ceramic Filters for Advanced Process Technologies

Frank Händle, Consultant, ETC-KEMA/DE

Tailoring Natural Fertilizer

Raphael Kunz, Sales Engineer for Ceramic Membrane Discs, Kerafol/DE

NEXTREMA® Glass-Ceramic Solutions: Game-Changer for Industrial Applications

Stephanie Schwarz, Vice President Sales & Marketing ROBAX® & NEXTREMA®, Schott/DE

Silicon Carbide Material: Solutions for Laser Processes, Semiconductor, Opto-Mechanics OEMS and Chemical Industries

Marc Ferrato, Responsible R&D, Mersen Boostec/FR;
Patrick Chereau, Ingenieur Arts et Metiers, Mersen Boostec/FR

Water-Based Tape Casting Process: an Innovative Environmental Friendly Process for Mass Production of Thick and Thin Ceramic Substrates for Electronic Applications

Dr Simona Illiescu, R&D Manager, Sedal/ES

Medical**Advanced Ceramics for Healthcare – Materials, Properties, Applications**

Ulrich Werr, Area Sales Manager, Rauschert/DE

Consequences of Stretching Ceramic Mechanical Properties to their Limits for Technologically Challenging Applications

Senad Hasanovic, Vice President Innovation & Development, Ceramaret/CH

Highly Leak-tight Ceramic-metal Assembly for a Novel, Three-dimensional Imaging X-ray Process

Dr Kai Sauerzapfe, Head of Business Unit Battery Systems, Alumina Systems/DE

Lithography-Based Metal Manufacturing (LMM)

Dr Gerald Mitteramskogler, Managing Director, Incus/AT

Metal Binder Jetting a Supplement to Beam Melting

Claus Aumund-Kopp, Senior Scientist, Fraunhofer IFAM Bremen/DE

HIP (title to be confirmed)

Marc Knauff, Managing Director, CREMER HIP Innovations/DE

14.00–15.30

Hard Metals – Innovation Trends**Keynote****100 Years of Hard Metals and not an End**

Dr Jürgen Schmidt, Director, Extramet AG/CH;
Dr Margarethe Traxler, R&D Group Leader Material Development, Boehlerit GmbH & Co. KG/AT

Current Trends in the Development of Hard Metals

Anne Vornberger, Scientist, Fraunhofer IKTS-Dresden/DE

AM of WC–Co Hard Metals Using Laser Powder Bed Fusion

Sofia Fries, Team Leader Hard Metals and Cermets, IWM, RWTH Aachen University/DE

CARBIDE2500 – High-Temperature Carburization at up to 2500 °C Opens New Possibilities for the Development of Advanced Hard Metal Products

Dr Jaqueline Gruber, Executive Assistant, CREMER Thermoprozessanlagen/DE

FORUM 3

AM Ceramics will be organized by Lithoz/AT as in previous events. The program will be ready soon.

Please visit for up-dates: www.ceramitec.de

