

Organizational chart

Institute Management

Institute Director

Prof. Dr. habil. Alexander Michaelis

Materials

Nonoxide Ceramics

Dipl.-Krist. Jörg Adler

- Structural Ceramics with Electrical Function
- Carbide Ceramics and Filter Ceramics
- Nitride Ceramics and Fiber Composites

Oxide Ceramics

Dr. Sabine Begand

- Pilot Manufacturing of High-Purity Ceramics
- Oxide and Polymerceramic Composites*
- Transparent Ceramics

Processes and Components

Dr. Tassilo Moritz

- Powder Technology
- Shaping
- Component Development and Manufacturing
- Additive and Hybrid Manufacturing

Materials and Process Characterization

Sintering and Characterization

Dr. habil. Mathias Herrmann

- Thermal Analysis and Thermal Physics**
- Heat Treatment
- Ceramography and Phase Analysis
- Powder and Suspension Characterization**

Environmental and Process Engineering

Nanoporous Membranes

Dr. Hannes Richter

- Zeolite- and Carbon Membranes
- Polymer- and Mixed Matrix Membranes
- Membrane Prototypes
- Functional Carrier Systems and Layers

High-Temperature Separation and Catalysis

Dr. Ralf Kriegel

- High-Temperature Membranes and Storages
- Catalysis and Materials Synthesis

Circular Technologies and Water

Dr. Burkhardt Faßbauer

- Biomass Conversion and Nutrient Recycling
- Systems Engineering for Water and Wastewater
- Membrane Process Technology and Modeling
- Technical Electrolysis and Geothermal Energy
- Reaction Engineering Water

Chemical Engineering

PD Dr. habil. Matthias Jahn

- Modeling and Simulation
- Process Systems Engineering

Sites and Competence Centers of Fraunhofer IKTS

- Headquarters Dresden-Gruna, Saxony
- Site Dresden-Klotzsche, Saxony
- Site Hermsdorf, Thuringia
- Site Forchheim, Bavaria
- Fraunhofer Project Center for Energy Storage and Systems ZESS, Braunschweig, Lower Saxony
- Fraunhofer Technology Center High-Performance Materials THM, Freiberg, Saxony
- Fraunhofer Smart Ocean Technologies research group, Rostock, Mecklenburg-Western Pomerania
- Biological Materials Analysis research group at Fraunhofer IZI, Lipsia, Saxony
- Cognitive Material Diagnostics project group, Cottbus, Brandenburg
- Fraunhofer Center for Smart Agriculture and Water Management AWAM, Porto, Portugal
- Site Berlin, Berlin
- Battery Innovation and Technology Center BITC, Arnstadt, Thuringia
- Industrial Hydrogen Technologies Thuringia WaTTh, Arnstadt, Thuringia
- Competence Center Tape Casting, Hermsdorf, Thuringia
- Pilot Center for Powder Synthesis and Extrusion, Hermsdorf, Thuringia
- Research and Development Center for Transparent Ceramics, Hermsdorf, Thuringia
- Application Center Water, Hermsdorf, Thuringia
- Application Center Membrane Technology, Schmalkalden, Thuringia

Technische Universität Dresden

ifWW – Institute for Inorganic-Nonmetallic Materials

Prof. Dr. habil. Alexander Michaelis

IAVT – Electronic Packaging Laboratory

Prof. Dr. Henning Heuer

IFE – Institute of Solid State Electronics

Prof. Dr. habil. Thomas Härtling

Deputy Institute Director / Administrative Manager
Deputy Institute Director / Marketing and Strategy
Deputy Institute Director / Site manager Hermsdorf
Deputy Institute Director / Site manager Dresden-Klotzsche

Dr. Michael Zins
Prof. Dr. Michael Stelter
Prof. Dr. Ingolf Voigt
Dr. Christian Wunderlich

- Quality Assurance Laboratory** and Mechanics Laboratory
- Chemical and Structural Analysis
- Hardmetals and Cermets

Correlative Microscopy and Materials Data

Prof. Dr. Silke Christiansen

- Correlative Microscopy

Electronics/Microsystems- and Biomedical Engineering

Smart Materials and Systems

Dr. Holger Neubert

- Multifunctional Materials and Components
- Applied Material Mechanics and Solid-State Transducers

Energy Systems

Materials and Components

Dr. Mihails Kusnezoff

- Joining Technology
- Materials for Printed Systems
- Ceramic Energy Converters
- High-Temperature Electrochemistry and Functionalized Surfaces

System Integration and Technology Transfer

Dr. Roland Weidl

- System Concepts
- Stationary Energy Storage Systems
- Thin-Film Technologies
- Industrial Data Concepts
- Smart Machine and Production Design
- Hydrogen Technologies

Energy Storage Systems and Electrochemistry

Dr. Mareike Partsch

- Electrochemistry
- Cell and Process Development
- Recycling and Green Battery

Hybrid Microsystems

Dr. Uwe Partsch

- Thick-Film Technology and Functional Printing
- Microsystems, LTCC and HTCC
- Functional Materials for Hybrid Microsystems
- Systems Integration and Electronic Packaging
- Ceramic Tapes

Testing of Electronics and Optical Methods

Dr. Mike Röllig

- Optical Test Methods and Nanosensors
- Speckle-Based Methods
- Reliability of Microsystems

Systems for Testing and Analysis

Prof. Dr. Henning Heuer

- Electronics for Testing Systems
- Software for Testing Systems
- Eddy Current Methods
- Ultrasonic Sensors and Methods
- Machine Learning and Data Analysis
- Project Group Cognitive Material Diagnostics Cottbus

Microelectronic Materials and Nanoanalysis

Dr. Birgit Jost / Dr. André Clausner

- Nanoscale Materials and Analysis
- Nanomechanics and Reliability for Microelectronics

Condition Monitoring and Test Services

Dr. Lars Schubert

- Condition Monitoring Hardware and Software
- Methods for Monitoring Systems
- Model-based Data Evaluation
- NDT Lab**

Bio- and Nanotechnology

Dr. Jörg Opitz

- Biological Materials Analysis
- Characterization Technologies
- Biodegradation and Nanofunctionalization
- Biologized Materials and Structures

* certified in accordance with DIN EN ISO 13485

** accreditation in accordance with DIN EN ISO/IEC 17025

Friedrich Schiller University Jena

Institute for Technical Environmental Chemistry

Prof. Dr. Michael Stelter

Ernst Abbe University of Applied Sciences Jena

SciTec – Materials Engineering

Prof. Dr. Ingolf Voigt

Freie Universität Berlin

Institute for Experimental Physics

Prof. Dr. Silke Christiansen