ORGANIZATIONAL CHART

Institute Director — Prof. Dr. habil. Alexander Michaelis

Deputy Institute Director / Head of Administration — Dr. Michael Zins
Deputy Institute Director / Marketing and Strategy — Prof. Dr. Michael Stelter
Deputy Institute Director — Dr. Ingolf Voigt
Deputy Institute Director — Dr. Christian Wunderlich

Materials

Nonoxide Ceramics
Dipl.-Krist. Jörg Adler
- Nitride Ceramics and Structural Ceramics with Electrical Function
- Carbid Ceramics and Filter Ceramics

Oxide Ceramics
Dr. Sabine Begand
- Materials Synthesis and Development
- Pilot Manufacturing of High-Purity Ceramics
- Oxide and Polymerceramic Composites*

Processes and Components
Dr. Hagen Klemm
- Powder Technology
- Shaping
- Component Development
- Finishing

* certified according to DIN EN ISO 13485

Sintering and Characterization / Non-Destructive Testing
Dr. habil. Mathias Herrmann
- Thermal Analysis and Thermal Physics*
- Heat Treatment
- Ceramography and Phase Analysis

Environmental and Process Engineering

Nanoporous Membranes
Dr. Hannes Richter
- Zeolithe Membranes and Nano-Composites
- Carbon-Based Membranes
- Membrane Prototypes

High-Temperature Separation and Catalysis
Dr. Ralf Kriegel
- High-Temperature Membranes and Storages
- Catalysis and Materials Synthesis

Biomass Technologies and Membrane Process Engineering
Dr. Burkhardt Fassauer
- Biomass Conversion and Water Technology
- Mixing Processes and Reactor Optimization
- Membrane Process Technology and Modeling
- Technical Electrolysis and Geothermal Energy

Chemical Engineering
PD Dr. Matthias Jahn
- Modeling and Simulation
- Process Systems Engineering

Sites of Fraunhofer IKTS
Headquarter Dresden-Gruna, Saxony
Site Dresden-Klotzsche, Saxony
Site Hermsdorf, Thuringia
Project Group Berlin

Application Center
Battery Technology, Pleißa, Saxony
Bioenergy, Pöhl, Saxony
Bio-Nanotechnology Application Lab BNAL, Leipzig, Saxony
Membrane Technology, Schmalkalden, Thuringia
Tape Casting Center, Hermsdorf, Thuringia

Technische Universität Dresden	
ifWW – 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
DCN – Dresden Center for Nanoanalysis	Prof. Dr. habil. Ehrenfried Zschech
Friedrich Schiller University Jena	
Technical Environmental Chemistry	Prof. Dr. Michael Stelter
Iowa State University	
Aerospace Engineering	Prof. Dr. habil. Norbert Meyendorf

- Powder and Suspension Characterization*
- Quality Assurance Laboratory* and Mechanics Laboratory
- Chemical and Structural Analysis
- Hardmetals and Cermets
- Accredited Test Lab*

* accredited according to DIN EN ISO/IEC 17025

Energy Systems / Bio- and Medical Technology

Materials and Components
Dr. Mihails Kusnezoff
- Joining Technology
- High-Temperature Electrochemistry and Catalysis
- Ceramic Energy Converters
- Materials MCFC

System Integration and Technology Transfer
Dr. Roland Weidl
- System Concepts
- Validation
- Functional Carrier Systems and Layers
- Stationary Energy Storage Systems
- Thin-Film Technologies
- Electrolytes and Samples

Bio- and Nanotechnology
Dr. Jörg Opitz
- Biological Materials Analysis
- Characterization Technologies
- Biodegradation and Nanofunctionalization

Energy Storage Systems and Electrochemistry
Dr.-Ing. Mareike Wolter
- Electrochemistry
- Cell Concepts
- Electrode Development
- Electrochemical Energy Storage Systems and Converters

Electronics and Microsystems Engineering

Smart Materials and Systems
Dr. Holger Neubert
- Multifunctional Materials and Components
- Applied Material Mechanics and Solid-State Transducers
- Systems for Condition Monitoring

Hybrid Microsystems
Dr. Uwe Partsch
- Thick-Film Technology and Photovoltaics
- 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

Microelectronic Materials and Nanoanalysis
Prof. Dr. habil. Ehrenfried Zschech
- Micro- and Nanoanalysis
- Materials and Reliability for Microelectronics

Project Group Berlin
Dipl.-Ing. Ralf Schallert