

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 / Dr. Bärbel Voigtsberger

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
- Carbide Ceramics and Filter Ceramics

Oxide Ceramics

Dr. Isabel Kinski

- 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
- Process Technology and Silicate Ceramics

* 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

- Zeolite Membranes and Nano-Composites
- Carbon-Based Membranes
- Membrane Prototypes

High-Temperature Separation and Catalysis

Dr. Ralf Kriegel

- High-Temperature Membranes and Storages
- High-Temperature Separation
- 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 and Electrochemistry

PD Dr. Matthias Jahn

- Modeling and Simulation
- Process Systems Engineering
- Electrochemistry

Technische Universität Dresden

ifWW – Inorganic-Nonmetallic Materials

IAVT – Electronic Packaging Laboratory

DCN – Dresden Center for Nanoanalysis

Friedrich-Schiller University Jena

Technical Environmental Chemistry

Iowa State University

Aerospace Engineering

Prof. Dr. habil. Alexander Michaelis

Jun.-Prof. Henning Heuer

Prof. Dr. habil. Ehrenfried Zschech

Prof. Dr. Michael Stelter

Prof. Dr. rer. nat. et Dr.-Ing. habil. N. Meyendorf

- Powder and Suspension Characterization*
- Quality Assurance Laboratory* and Mechanics Laboratory
- Chemical and Structural Analysis
- Hard Metals and Cermets
- Accredited Test Lab* * accredited according to DIN EN ISO/IEC 17025

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

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
- Mobile Energy Storage Systems
- Stationary Energy Storage Systems
- Thin-Film Technologies

Bio- and Nanotechnology

Dr. Jörg Opitz

- Biological, immunological and optical Nanosensors
- Acoustical Diagnostics

Hybrid Microsystems

Dr. Uwe Partsch

- Thick-Film Technology and Photovoltaics
- Microsystems, LTCC and HTCC
- Functional Materials for Hybrid Microsystems
- Systems Integration and Electronic Packaging
- Technical Center Renewable Energy HOT
- 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

Jun.-Prof. Henning Heuer

- Electronics for Testing Systems
- Software for Testing Systems
- Eddy Current Methods
- Ultrasonic Sensors and Methods

Microelectronic Materials and Nanoanalysis

Prof. Dr. habil. Ehrenfried Zschech

- Micro- and Nanoanalysis
- Materials and Reliability for Microelectronics

Project Group Berlin

Dipl.-Ing. R. Schallert