

# 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
- Carbide 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
- 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

## Sites of Fraunhofer IKTS

Headquarters Dresden-Gruna, Saxony

Site Dresden-Klotzsche, Saxony

Site Hermsdorf, Thuringia

Project Group Berlin

## Application Center

Battery Technology, Pleiße, 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

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. 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

### 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