Organizational chart

Institute Management

Institute Director
Prof. Dr. habil. Alexander Michaelis

Materials

Nonoxide Ceramics
Dipl.-Krist. Jörg Adler
- Structural Ceramics with Electrical Function
- Carbid Ceramics and Cellular Ceramics
- Nitride Ceramics and Fiber Composites
- Protective Ceramics
- Filter Ceramics and Exhaust Gas Aftertreatment

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

Technology Economics and Sustainability Analysis
Dr. Daniela Pufky-Heinrich
- Technology and Operations Management
- Economic Analysis and Sustainability

Materials and Process Characterization

Sintering and Characterization
Dr. Annegret Potthoff / Dr. Johannes Pötschke
- Thermal Analysis and Thermal Physics**
- Heat Treatment
- Ceramography and Phase Analysis
- Powder and Suspension Characterization**
- Quality Assurance Laboratory** and Mechanics Laboratory
- Chemical and Structural Analysis
- Hardmetals and Cermets
- Thin-Film Technologies

Energy Systems

Materials and Components
PD Dr. habil.Mihails Kusnezoff
- Hydrogen Technologies
- Joining Technology
- Materials for Printed Systems
- Ceramic Energy Converters
- High-Temperature Electrochemistry and Functionalized Surfaces

Stationary Energy Storage Systems
Dr. Matthias Schulz
- Ceramic Electrolytes and Electrodes
- Cell Concepts and Prototypes

Mobile Energy Storage Systems and Electrochemistry
Dr. Mareike Partsch
- Cell Design and Testing
- Process Development and Process Control

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

Freie Universität Berlin
- Institute for Experimental Physics
  Prof. Dr. Silke Christiansen

Ernst Abbe University of Applied Sciences Jena
- Institute for Technical Environmental Chemistry
  Prof. Dr. Michael Stelter

Ernst-Abbe-Hochschule Jena
- SciTec – Materials Engineering
  Prof. Dr. Ingolf Voigt

Technische Universität Bergakademie Freiberg
- Chemical Technology
  Prof. Dr. habil. Martin Bertau
- Energy Process Engineering and Chemical Engineering
  Prof. Dr. Martin Gräbner

Brandenburg University of Technology Cottbus-Senftenberg
- Cognitive Material Diagnostics
  Prof. Dr. Constanze Tschöpe

HTWD - University of Applied Sciences Dresden
- Renewable und Sustainable Energy Systems
  Prof. Dr. Laura Nousch

Universitas Gadjah Mada (Indonesia)
- Faculty of Dentistry
  Adj. Prof. Dr. Natalia Beshchasna

Deputy Institute Directors

Administrative Director	Dr. Michael Zins	Site manager Hermsdorf	Prof. Dr. Ingolf Voigt
Marketing and Strategy	Prof. Dr. Michael Stelter	Site manager Dresden-Klotzsche	Dr. Christian Wunderlich
		Site manager Arnstadt	Dr. Roland Weidl

Business Development
Prof. Dr. habil. Thomas Härtling

Correlative Microscopy and Materials Data
Prof. Dr. Silke Christiansen
- Correlative Microscopy
- Correlative Spectroscopy

Digitally supported Systems and Services
Dipl.-Math. Michael Brand
- Industrial Data Technologies
- Chemometrics and Test Design
- Machine and Production Design
- Software for Testing Systems

Environmental and Process Engineering

Nanoporous Membranes
Dr. Hannes Richter
- Zeolite- and Carbon Membranes
- Polymer- and Mixed Matrix Membranes
- Membrane Prototypes

High-Temperature Separation and Catalysis
Dr. Jörg Richter
- High-Temperature Membranes and Storages
- Catalysis and Materials Synthesis

Circular Technologies and Water
Dr. Burkhardt Faßauer / Dr. Marcus Weyd
- Biomass Conversion and Nutrient Recycling
- Systems Engineering for Water and Wastewater
- Electrochemistry
- Hydrometallurgical Recycling and Raw Materials Chemistry
- Membrane Characterization and Modeling
- Technical Electrolysis and Geothermal Energy
- Reaction Engineering Water
- Applied Membrane Technology

Energy and Process Engineering
PD Dr. habil. Matthias Jahn / Prof. Dr. Martin Gräbner
- Modeling and Simulation
- Process Systems Engineering
- Circular Carbon Technologies
- Systems Integration
- Energy System Concepts

Electronics/Microsystems- and Biomedical Engineering

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

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
- Eddy-Current Methods
- Ultrasonic Sensors and Methods
- Machine Learning and Data Analysis
- Project Group Cognitive Material Diagnostics Cottbus

Microelectronic Materials and Nanoanalysis
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