

CAM IS A COMPETENCE CENTER FOR  
MICROSTRUCTURE DIAGNOSTICS  
AND MATERIAL CHARACTERIZATION  
WITHIN FRAUNHOFER IMWS IN HALLE

FRAUNHOFER IMWS  
CENTER FOR APPLIED MICROSTRUCTURE DIAGNOSTICS

## REGISTRATION

PLEASE REGISTER ONLINE UNTIL MARCH 29<sup>th</sup>, 2019

[www.cam-workshop.de](http://www.cam-workshop.de)

### Participation Fee

There is a 150 Euro (+ VAT) participating fee.

### Accommodation

Hotel recommendations as well as the relevant booking form will be found on the website: [www.cam-workshop.de](http://www.cam-workshop.de).

### Workshop Venue

The industry workshop and accompanying technology exhibition will take place at: Leibniz IAMO  
Theodor-Lieser-Straße 2 | 06120 Halle  
[www.iamo.de](http://www.iamo.de)

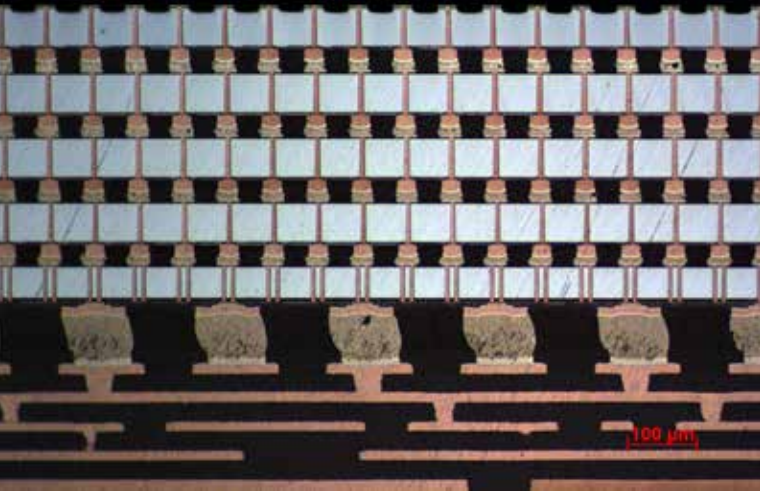
### Contact Details

Email: [workshop@imws.fraunhofer.de](mailto:workshop@imws.fraunhofer.de)  
Center for Applied Microstructure Diagnostics  
Fraunhofer IMWS  
Inken Ulrich | Phone: +49 345 5589-140

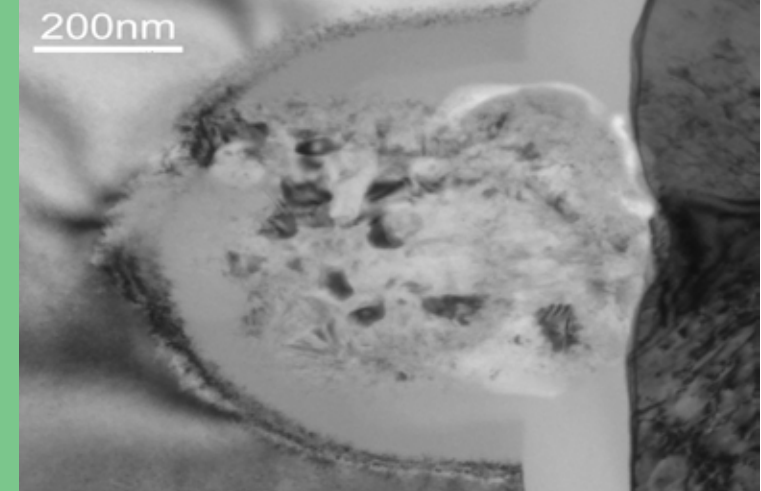
## FAILURE ANALYSIS AND MATERIAL DIAGNOSTICS OF ELECTRONICS COMPONENTS



INDUSTRY WORKSHOP AND TECHNOLOGY EXHIBITION  
APRIL 10<sup>TH</sup> AND 11<sup>TH</sup>, 2019 | HALLE (SAALE) | GERMANY



## FAILURE ANALYSIS AND MATERIAL DIAGNOSTICS OF ELECTRONICS COMPONENTS



### FAILURE ANALYSIS AND MATERIAL DIAGNOSTICS OF ELECTRONICS COMPONENTS

In this series of workshops, we concentrate on questions like how to find, control and avoid defects; how to analyze and understand material interactions and as the final target, how to improve the quality and reliability properties of semiconductor components and systems. There is no doubt, that the workshop, which focuses mainly on practical issues, has been gaining momentum and its practical approach looks to be even more important in future.

This trend is fueled by requirements arising from IC shrink, the increasing design complexity of homogeneously or heterogeneously integrated electronics systems and the continuous introduction of more and more new materials, for example wide bandgap semiconductors. In addition, these cutting-edge semiconductor technologies have to meet the quality standards of reliability-demanding applications much more rapidly, in particular those of the fast evolving automotive electronics market.

Both, experts from the electronics industry and from material diagnostics equipment manufacturers will meet in Halle in order to discuss current and future needs in defect analysis and material characterization from the technology perspective; for sharing current results in failure analysis application studies. Furthermore, the experts will also present the latest achievements in newly developed innovative diagnostics methods, instrumentation and tools. These techniques are applied to secure the quality, yield and reliability of innovative devices.

#### TOPICS

- Trends in semiconductor technologies, system integration solutions and electronics materials as well as the resulting demands on failure analysis, material diagnostics and quality assurance methods
- New results in fault isolation, target preparation and defect analysis applications
- Case studies of failure diagnostics work flows for innovative technologies
- Innovative methods and new equipment solutions for material characterization and defect analysis

### CENTER FOR APPLIED MICRO-STRUCTURE DIAGNOSTICS

The Center for Applied Microstructure Diagnostics is a leading service provider for failure diagnostics and materials assessment. Contract R & D for industry, semiconductor technologies, microelectronic components, microsystems, and nanostructured materials is our day-to-day business.

At CAM, we cover the entire work flow from non-destructive defect localization over high precision target preparation to cutting edge nanoanalytics supplemented by micro-mechanical testing, finite element modelling and numerical simulation. In preparation for future challenges, we do accomplish intense forefront research in cooperation with international partners.

Using a certified DIN ISO 9001:2000 quality management system, we provide services for leading international as well as for small and medium enterprises, many of them active in the very demanding automotive electronics market.



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