



The way to new testability methods for MEMS manufacturing

Optical Characterisation Methods for MEMS Manufacturing (OCMMM) is a project funded by the European community under the "Competitive and Sustainable Growth" program.

The objective of this project is to develop new testability procedures for the characterisation of mechanical behaviour of MEMS, during the chip-production, the assemblage and life cycles of the finished product.

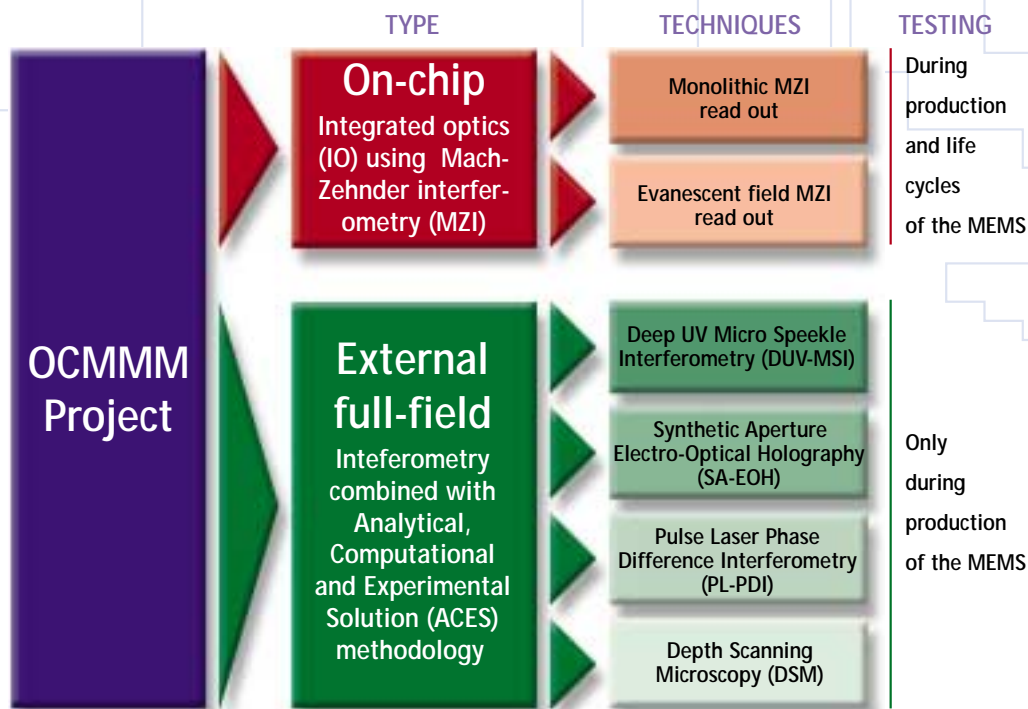
Optical interferometry techniques have been chosen to perform this objective as it offers non-contact diagnostics and high-resolution measurements.



Optical Characterisation Methods for MEMS Manufacturing (OCMMM)

"On-chip" and "External full-field" techniques for optical characterisation are being investigated by the OCMMM project. These techniques offer novel means for systematic analysis in MEMS micromachining leading to:

- Reduction of the cost for developing MEMS products
- Increased yield in industrial MEMS fabrication
- Improved quality and reliability of MEMS products
- Increased acceptance and use of MEMS products from the industry



Partners

The partners involved in the OCMMM project includes large companies as well as SMEs and research institutes. Each of the partners have a pre-defined tasks in one of the testability procedures.

Large companies:

- Thales-Avionique (TH-AV) in France
- Thales-TRT (TH-TRT) in France

SME's:

- GF Messtechnik (GFM) in Germany
- LioniX (LION) in The Netherlands
- Yole Développement (YOLE) in France

Research institutes:

- University of Twente, MESA Institute (MESA+) in Netherlands
- Fraunhofer Gesellschaft zur Förderung der angewandten Forschung e.V. (IWU) in Germany
- Chemnitz Univ. of Technology (TUC, ZFM) in Germany
- Warsaw University of Technology (WUT) in Poland
- Université de Franche-Comté (LOPMD) in France

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