

Identification of missing simulation parameters in MEMS design

Objectives

- Survey of the existing material parameters for MEMS simulation and modelling
 - Collection of equations used in MEMS simulation
 - Collection of materials used in MEMS technology
 - Matrix creation of the above two
 - Identification of missing material parameters
- Recommendation for the WP3 group to orient their material parameter collecting activity

Partners involved and roles

- BUTE: collection activity
- All WP2 partners: evaluation

Summary of results

- The list of the unavailable parameters is forwarded to the group that will measure these parameters.
- Recommendations for future collaborations between WP2 and WP3:
 - collecting material parameters for micro-fluidics simulation is not pursued yet in WP3
 - energy barrier heights between materials are missing parameters

Offer to industry

- To be defined

Contact Dr Veronika Timar Horvath
(timarne@eet.bme.hu)

Project status

Phase 1: finished
Phase 2: to be revised

