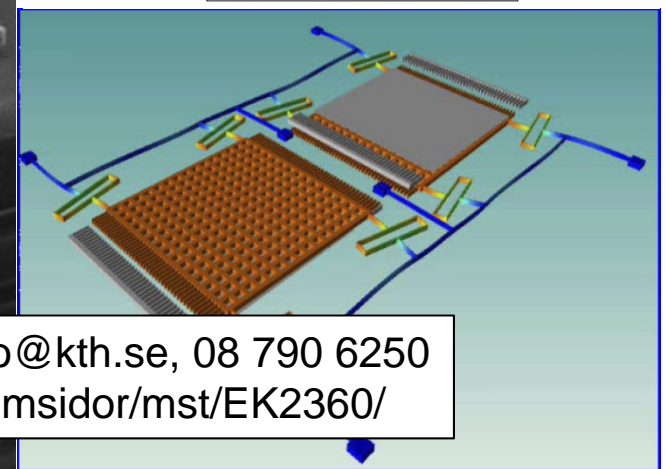
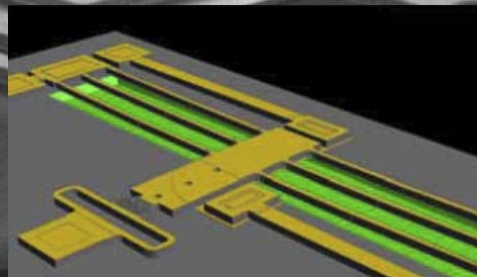
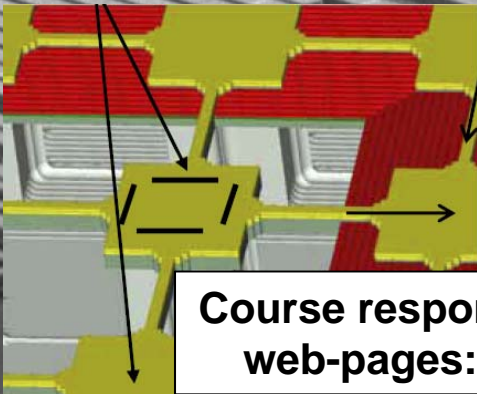
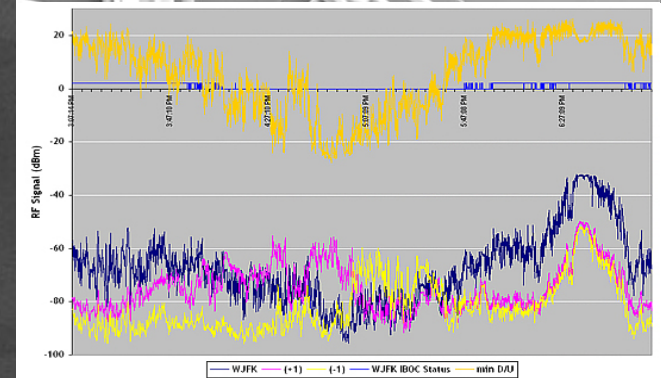
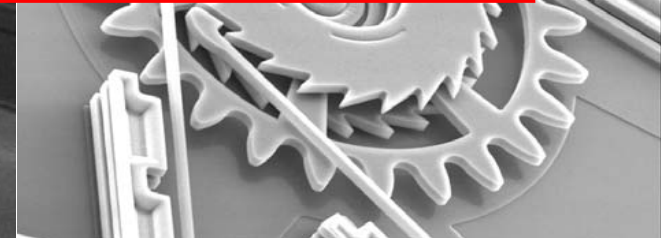


Hands-on micro-electromechanical Systems Engineering

EK2360

HT-P2

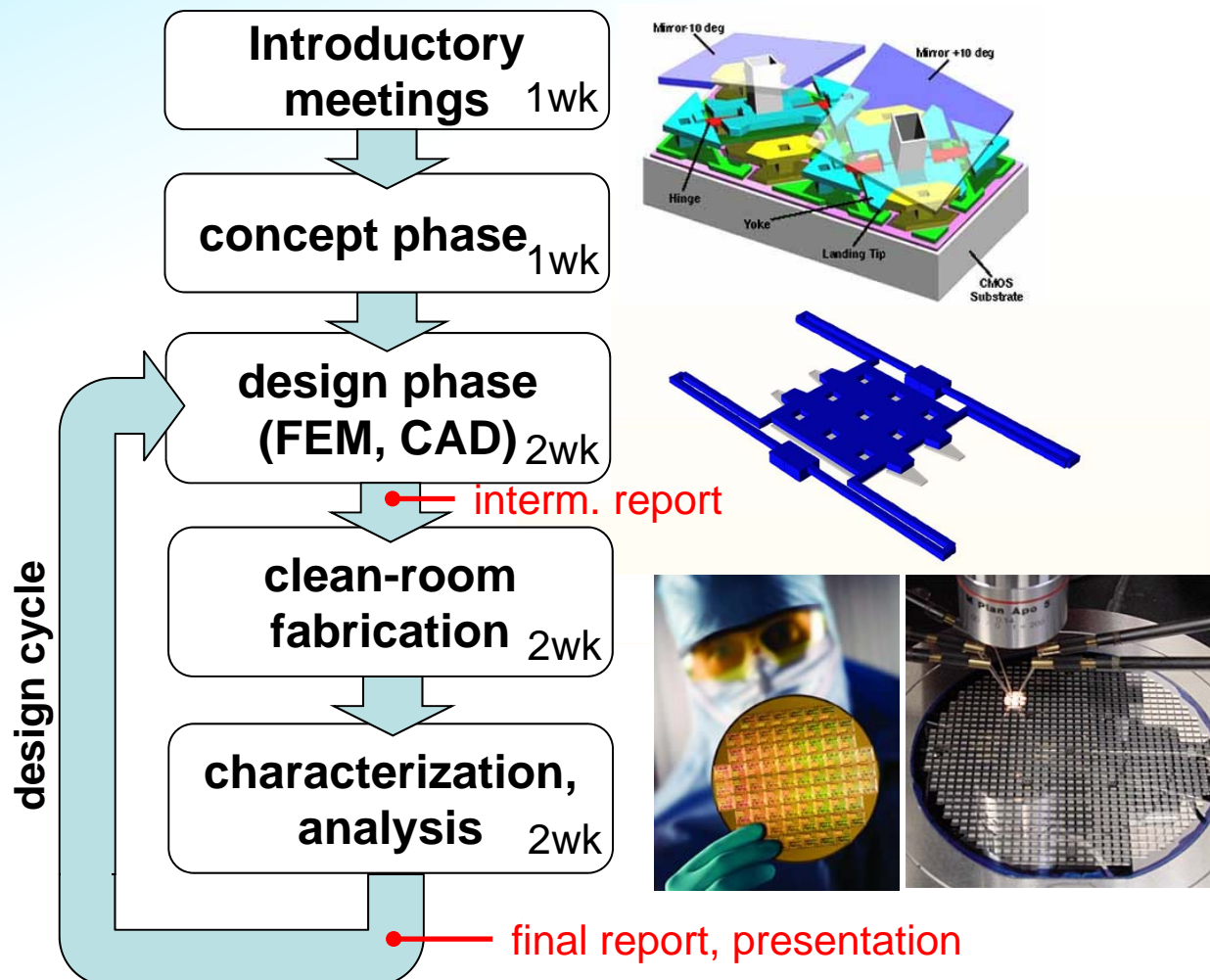
7.5 credits



Course responsible: Joachim Oberhammer, joachimo@kth.se, 08 790 6250
web-pages: <http://www.kth.se/ees/utbildning/kurshemsidor/mst/EK2360/>

EK2360 “Hands-on MEMS Engineering”

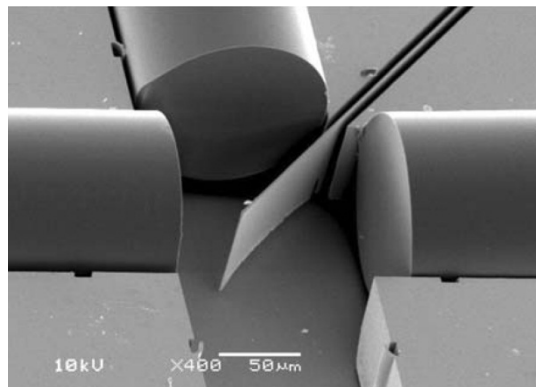
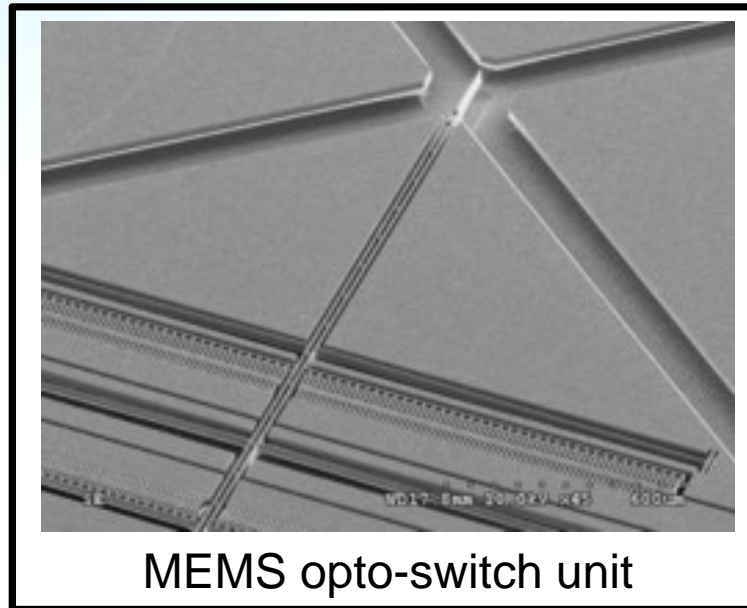
- “hands-on” project work in small teams (2-3 people)
- design, fabricate, evaluate your own MEMS device !!



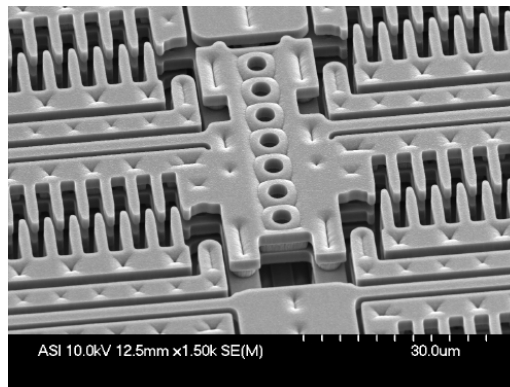
- understand MEMS device engineering
- develop your own ideas!
- use state-of-the art design tools
- find your way in the clean-room
- compare measurements with simulations
- analyse failure modes
- suggest design improvements

Last year's task ...

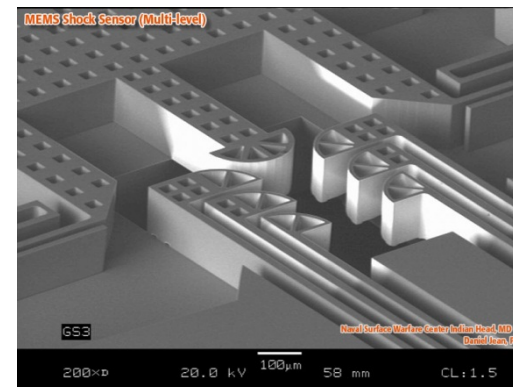
- design a **MEMS optical switch for telecommunication networks**, based on real-world specifications



moving micromirror



comb-drive actuators



interlocking mechanics

Hands-on MEMS KTH 2011

GROUP 4

[Promotional video, created within a Best-Movie-Award competition among the course participants in 2011. The movie shows the devices designed, fabricated and evaluated by the students, in particular moving MEMS actuators in a measurement setup]

Hands-on micro-electromechanical Systems Engineering

EK2360

HT-P2

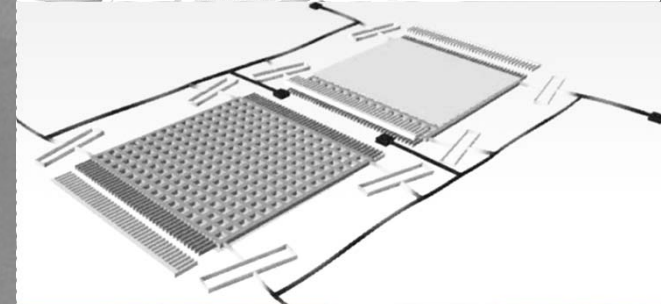
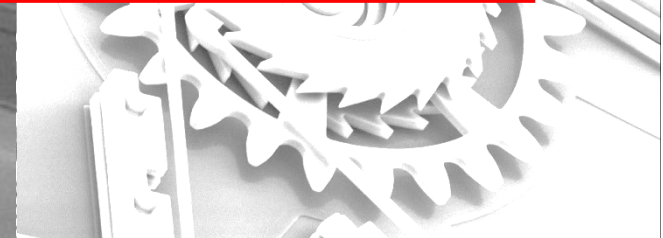
7.5 credits

Course evaluation of 2011:

- 30% of students consider the course as one of the best 10% KTH courses
- 70% of students consider the course as one of the best 25% KTH courses

Course start 2012:

Monday, Oct. 22, 10:15-12:00
Q13 (KTH main campus)



<http://www.kth.se/ees/utbildning/kurshemsidor/mst/EK2360/>

teachers 2012