

WORKSHOP ON MICROFABRICATION

Lisbon 14-15 May 2014

INESC-Microsystems and Nanotechnologies (INESC-MN)

Wednesday 14 th	Thursday 15 th
Arrival - Registration	Clean Room Session
Session I: General	B 1
Session II: Magnetic based devices	
13:00-14:00	13:15-14:15
Buffet Lunch	Buffet Lunch
Session III:– Optical based devices	Session IV _b : Applications
Session IV _a : Applications	
Clean Room Session A1/A2	
Workshop Dinner	

Lectures will be done at the Anfiteatro do Complexo (IST)

Starting time is 9:30, ending at 18:30h on Wednesday 14th and 16:30 on Thursday $15^{\rm th}$.

Posters will be available at INESC-MN, near the laboratories, from 13:000n Wednesday $14^{\rm th}$ to 14:15h on Thursday $15^{\rm th}$.

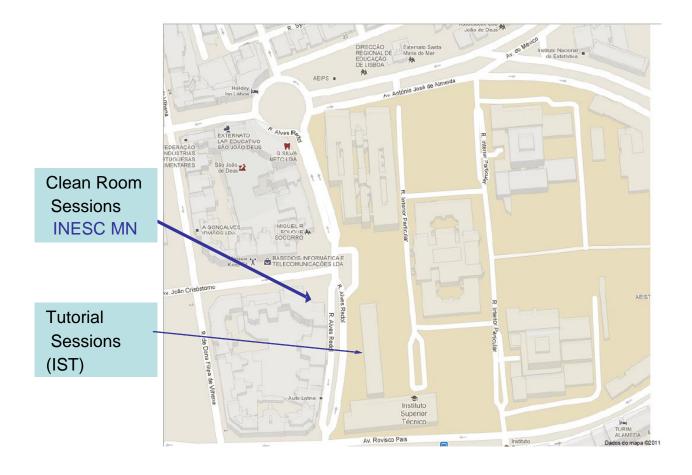
Clean Room Sessions will be done at INESC-MN building.







Local Map







Day 1 – 14th May 2014

Session I: General on Microfabrication

Lecture I.1 (9:30-10:30)- Susana Cardoso (INESC-MN) – Microfabrication methods and thin film optimization

Coffee Break (10:30-10:45)-

Session II: Magnetic based devices

Lecture II.1 (10:45-12:15)- Paulo Freitas (INESC-MN/INL) – Magnetic sensors in biomedical applications

Lecture II.2 (12:15-12:45)- Maria Lopez (INESC-MN) – Magnetic separation and microfluidics

Lunch (12:45-14:00)

Session III: Optical based devices

Lecture III.1 (14:00-14:10)- Markus Schubert (USTUTT) - Amorphous silicon based photodetectors – general design and function (M. Schubert, 10 min)

Lecture III.2 (14:10-15:00)- Markus Schubert and Marcel Berner (USTUTT) - Thin film Si photodetectors - deposition techniques and issues

Lecture III.3 (15:00-15:15)- Markus Schubert (USTUTT) - Laser processes for microfabrication

Lecture III.4 (15:15-16:00)- Markus Schubert (USTUTT) Characterization and performance of a-Si based photodetector arrays (M. Schubert and M. Berner, 45 min

Coffee Break (16:00-16:15)

Session IV: Applications

Lecture IV.1 (16:15-16:45)- Graça Minas (Universidade do Minho) – Optical detection systems for biomedical applications

Lecture IV.2 (16:45-17:15) – Francesco Baldini (IFAC-CNR) - Application of optical devices for POCT

Clean Room Session

Clean Room Session (17:30-18:45) – At INESC-MN building





Day 2 – 15th May 2014

Clean Room Session

Clean Room Session (9:30-13:00) – At INESC-MN building

Lunch (13:00-14:15)

Session IV: Applications

Lecture IV.3 (14:15-14:45)- João Gaspar (INL) – Micro-electrodes array for biomedical applications

Lecture IV.4 (14:45-15:15) – Markus Schubert (USTUTT) – Application for optical sensors

Lecture IV.5 (15:15-15:45) – João Pedro Conde (INESC-MN) – Thin-film silicon MEMS and NEMS

Lecture IV.6 (15:45-16:15) – Filipe Cardoso (INESC-MN/Magnomics)-"Magnetoresistive sensors for point-of-care diagnostics"

Clean room sessions (available during the 2 days)

A1 - Optical based devices demonstrations (João Pedro Conde)

A2- Magnetic based device demonstrations

B1 – Microfabrication techniques: wet bench, RIE , Deposition, Ion Milling, Lithography, Electroplating



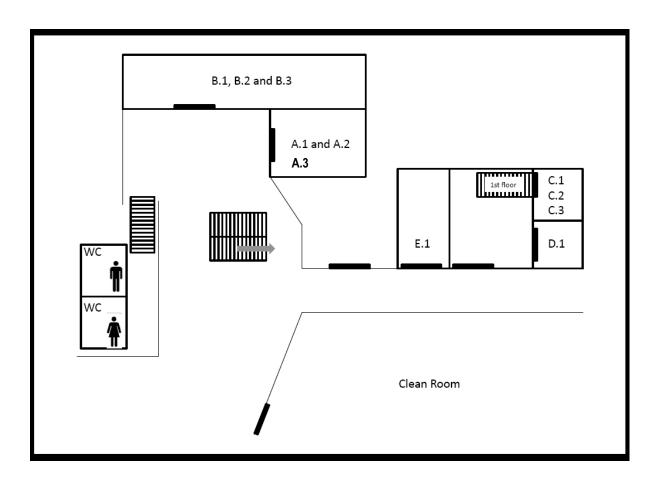


NANODEM NANOPHOTONIC DEVICE FOR MULTIPLE THERAPEUTIC DRUG MONITORING

 \mathcal{NAN} \mathcal{DEM}

Clean room sessions

(level -2, INESC-MN building)





Workshop Dinner

Place: Cervejaria Portugália

Time: 20:00

