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## Swedish members and OPV activities



## Karlstad University

- OPV activities since 2000.
- Materials Physics focus (2-6 persons)
- OPV is part of the Strategic Research Group INTERACT.

**KARLSTAD UNIVERSITY**



# MORPHOLOGY CHARACTERISATION OF FILMS AND DEVICE FABRICATION/CHARACTERISATION

## Microscopy techniques

AFM, KPM

TEM

Cross sectional SEM

**STXM** (synchrotron ALS Berkeley, SLS Villigen)

## Surface spectroscopy

UPS

XPS (synchrotron MAX-lab Lund)

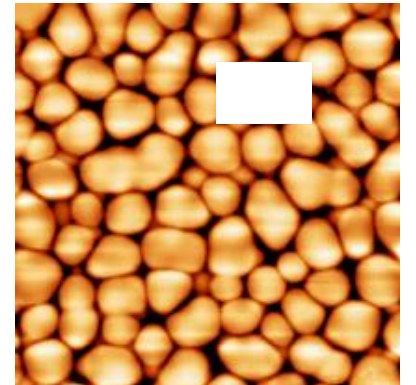
**NEXAFS** (synchrotron MAX-lab Lund)

## Depth profiling techniques

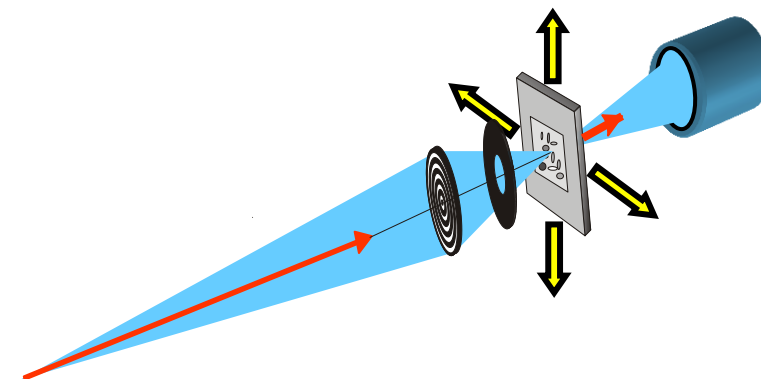
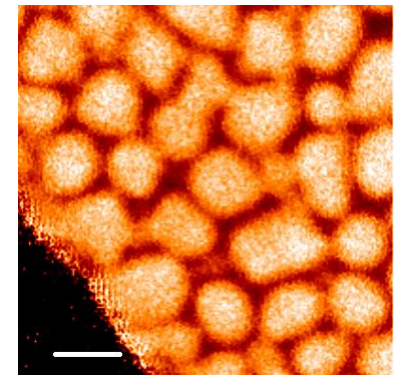
**d-SIMS** (through collaboration with JU Krakow)

Device fabrication (glovebox, and integrated evaporator)

Device characterisation (IV, solar simulator, EQE (soon))



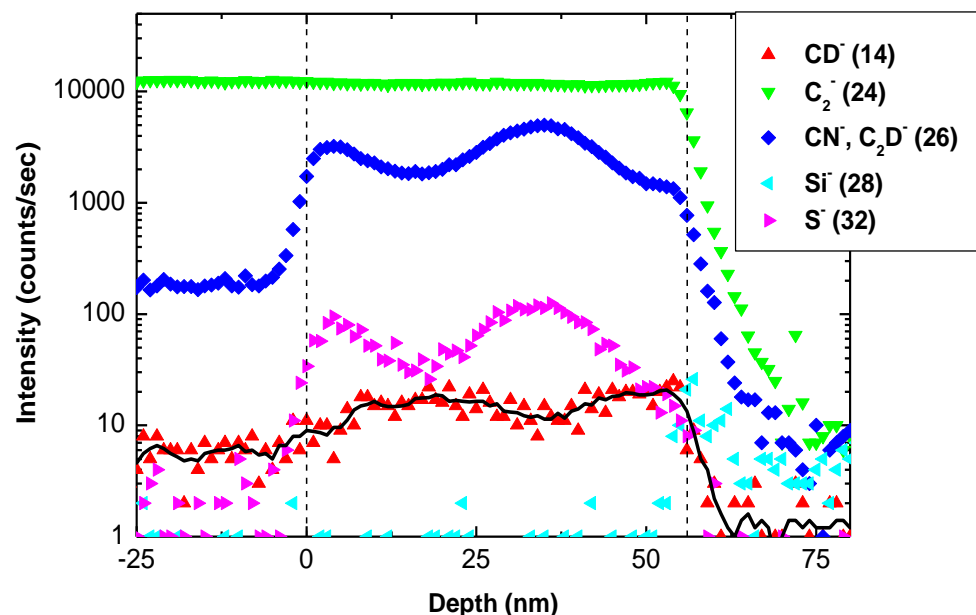
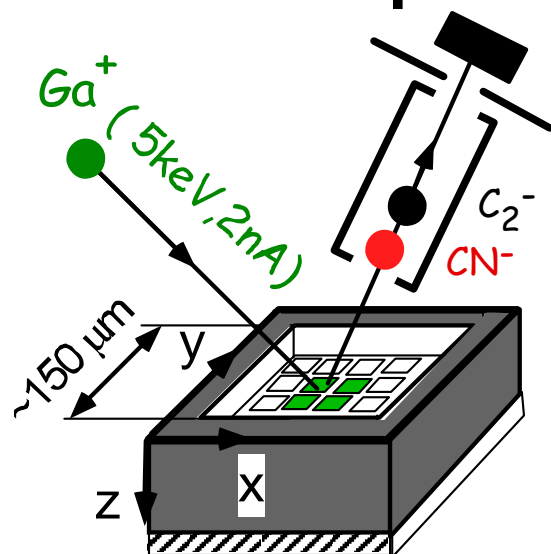
% PCBM comp.



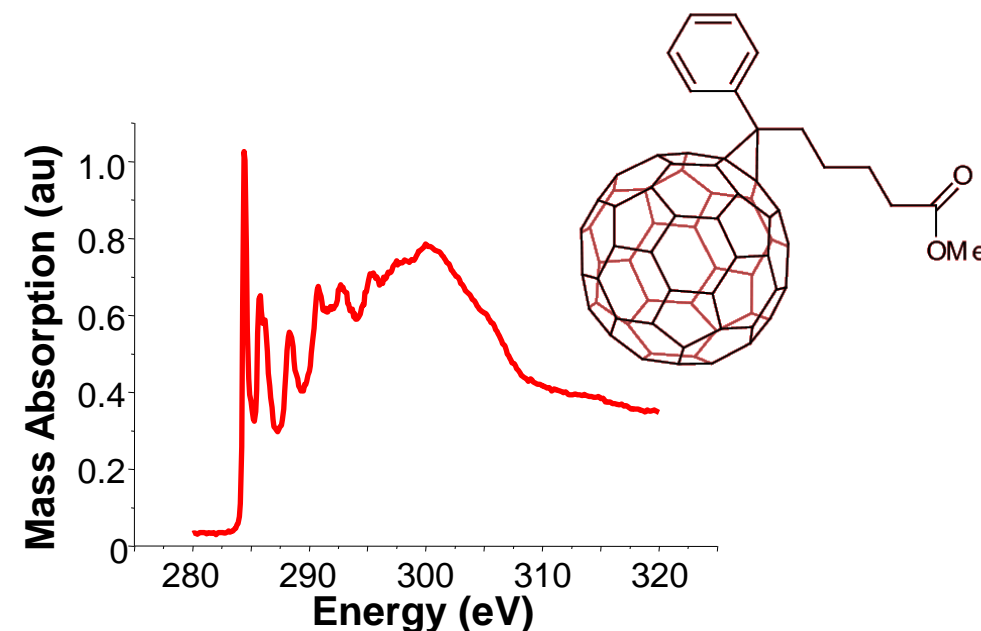
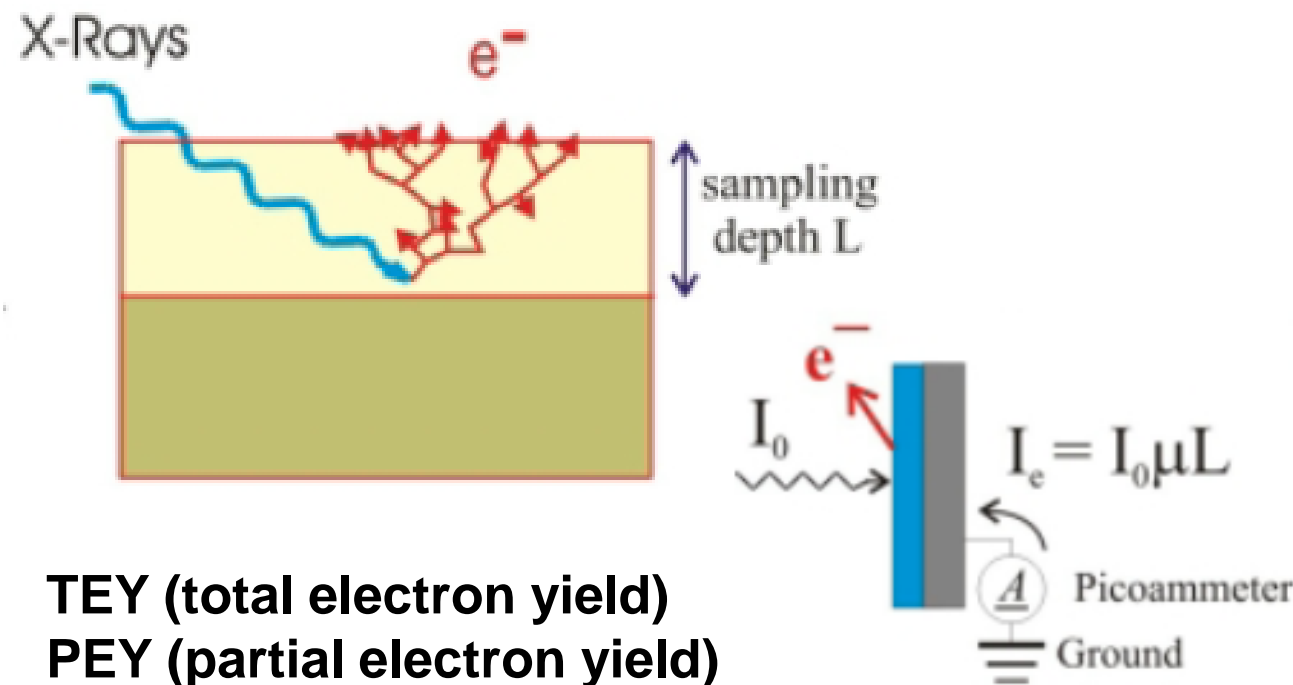


# d-SIMS

depth profiling –  
now also 3D composition map



# NEXAFS - surface composition





# Welcome to Karlstad

PhD student position available

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