



Bruker Workshop: “Advanced materials characterization by AFM mean”

Venue: VUA , De Boelelaan 1105, NU **NU-5A 47** oral lectures at 3pm 2nd April

Tuesday 2nd April

- 12:00 - 15:00 installing AFM **Dimension XR** at a lab (exact lab TBD after oral lectures)
- 15:00 - 15:25 **Oral scientific lectures by Bruker corporate scientist:**
“Peak Force Tapping Mode the proven standard in AFM imaging “
 Dr. Thomas Carlier, AFM Applications Team Europe
- 15:30-15:55 *“Modern AFM modes for nm scale mechanical and nano-electrical characterization of advanced materials.” Here we focus on advanced PFM, conductive AFM, photo-conductive PFM and electrical **DataCube AFM** modes”* Dr. Thomas Carlier, AFM Applications Team Europe
- 16:00-16:30 **Questions and Answers on AFM technology, setting time table for AFM tests for Wednesday -Thursday Friday**
- 16:30 -17:30 **Some short pre test with **Dimension XR****

Wednesday 3rd April

- 9:00 - 10:30 **Hands on Training Practical session 1**
“General presentation of Dimension XR system with hardware and software features demonstration for easy imaging of surface morphology”. Sergey Lemeshko/ Thomas Carlier
- 10:30 -12:00 **Hands on Training Practical session 2**
“Follow up training on advanced modes like: Piezoresponce , Surface potential and Peak Force Tunneling AFM (conductive AFM) ”. Sergey Lemeshko/ Thomas Carlier
- 14:00 - 17:30 **Practical session 1 (Samples from the group to be analyzed by VUA researchers)**

Thursday 4th April

- 8:30 - 12:30 **Practical session 2 (Samples from the group to be analyzed by VUA researchers)**
- 13:30 - 17:30 **Practical session 3 (Samples from the group to be analyzed by VUA researchers)**

Friday 5th April

- 8:30 - 12:00 **Practical session 4 (Samples from the group to be analyzed by VUA researchers)**
- 12:00 - 14:30 **Deinstallation of the **Dimension XR****

Samples , and measuring modes for practical session on Wednesday and Thursday to be discussed and prepared. There will be 4 time windows which shall be filled up with activity. This we will discuss, and if some help or particular experiment will needed then Bruker may assign our engineer to be with you. Contact for questions sergey.lemeshko@bruker.com .