

Morning

Afternoon - GRENOBLE

Monday  
March, 11

**Introduction of the school**  
A. Chabli – E. Zschech  
(Broadcasted on the two sites)

**EMCC Roadmap**  
E. Zschech – Fraunhofer IKTS  
Dresden  
(Broadcasted on the two sites)

**Overview of characterization techniques (GEN 1-2-3)**  
A. Chabli - CEA Grenoble  
(Broadcasted on the two sites)

Tuesday  
March, 12

**Surface Analysis (Topic1)**  
  
A. Benayad  
-  
CEA Grenoble  
  
(Broadcasted on the two sites)

Wednesday  
March, 13

**3D Characterization (Topic 2)**  
  
E. Zschech  
-  
Fraunhofer IKTS Dresden  
  
Broadcasted on the two sites

Thursday  
March, 14

**Characterization by Large Scale Facilities (Topic 3)**  
  
P. Gergaud  
-  
CEA Grenoble  
  
Broadcasted on the two sites

Friday  
March, 15

**Case studies summary and knowledge sharing**  
  
A. Chabli  
-  
CEA Grenoble  
  
A. Clausner and J.Gluch  
-  
Fraunhofer IKTS Dresden  
  
(Broadcasted on the two sites)

Lunch (and transfer)

Lunch and closing time

**Large Scale Facilities**  
-  
ILL/ESRF - Grenoble

Characterization Visits by groups

Characterization Visits by groups

Characterization Visits by groups

- Electron microscopy and sample preparation
- Surface analysis and ion beam analysis
- Optical and X-Ray characterization

Case study by Work Groups

GEN#    Topic#  
Topic#

Case study by Work Groups

GEN#    Topic#  
Topic#

Case study by Work Groups

GEN#    Topic#  
Topic#

Festive event

Wrap-up per WG

- Gen1:** Chemical and morphological properties
- Gen2:** Electrical and morphological properties
- Gen3:** Structural and morphological properties
  
- Topic1:** Surface analysis
- Topic2:** 3D Characterization
- Topic3:** Characterization by Large Scale Facilities

- Potential Case study works from the two sites:**
- Nanoparticles and nanocomposite materials
  - High-k metal gate stack for CMOS
  - Interconnections for CMOS
  - Batteries
  - PV Cells
  - etc.

Morning

Afternoon - DRESDEN

Klotzsche

WBS

Klotzsche

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Lunch (and transfer)

Lunch and closing time

**Helmholtz Zentrum - Dresden Rossendorf**

Lab visits

**Case study by Work Groups**  
  
Group 1    Group 2

**Case study by Work Groups**  
  
Group 1    Group 2

Wrap-up / Lab visits / Q&A

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