

European 450mm Equipment & Materials Initiative: EEMI 450

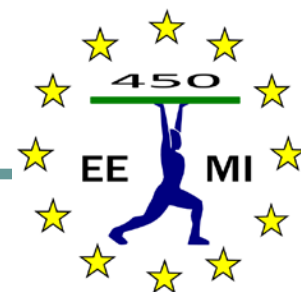


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Long-term Objective of the Initiative

- To improve the competitiveness of the European semiconductor E&M industry and therefore increase the chances to be selected by the tier 1 semiconductor companies in their future 450nm operations.
- To stimulate a European infrastructure that is leading in 450nm development and as a result will induce tier 1 companies to cooperation programs and possibly equip 450nm fabs in Europe.



EEMI 450 Steering Committee

- **To coordinate the efforts a Steering Committee was founded with support of the EU**
- **Current members:**
 - ASM (current spokesman)
 - ASML
 - Siltronic
 - Soitec
 - IMEC (representing EU institutes)
 - Recif Technologies
 - FhG IISB (representation of metrology companies)
 - Intel (2 members, US & Ireland)
 - Support EU representative (initial 6 months)



European 450mm Platform

- **Create a communion/network of E&M companies which work on 450mm topics**
- **Voluntary membership, no fees**
- **General assembly 2x year**
- **General assembly will choose SC members**
- **EEMI 450 Webpage (www.eemi450.net)**



Objectives EEMI 450

- **Increased cooperation between member companies on common technologies:**
 - Decrease R&D efforts
 - Decrease development timeframe
 - Optimise equipment specifications/performance
- **Examples:**
 - Standards/specifications
 - 450mm wafer characterisation
 - Wafer handling/cold/hot
 - Loadports/Platforms
 - Automation/Logistics
 - Software



Objectives EEMI 450 (2)

- **Cooperation with leading institutes:**
 - Early availability of metrology equipment, which can be utilised by the members
 - Evaluation of α - and β -systems
- **Cooperation with material suppliers**
 - Early availability of testwafers and other materials



Communication

- **Link with ISMI**
- **Involvement of tier 1 companies**
- **450mm activities/initiatives outside EU**
 - **Align Roadmaps**
 - **Common Standards**
 - **Possible cooperations**



Near Term Activities

- **Organizing General Assembly**
- **Defining working groups having common development interests (horizontal & vertical)**
- **Working groups define common projects**
- **European support programs could be used**
 - ENIAC call 2
 - Catrene call 2
 - FP7 ICT call 5



Response

- **First invitations to 90 European companies to join EEMI 450 have been sent out**
- **Initial general positive response**
- **First General Assembly will be held on April 20, 2009**



Invitation

- **EEMI 450 would like to invite a TSMC representative to become a member of the Steering Committee**

