

**« Remote Project »**

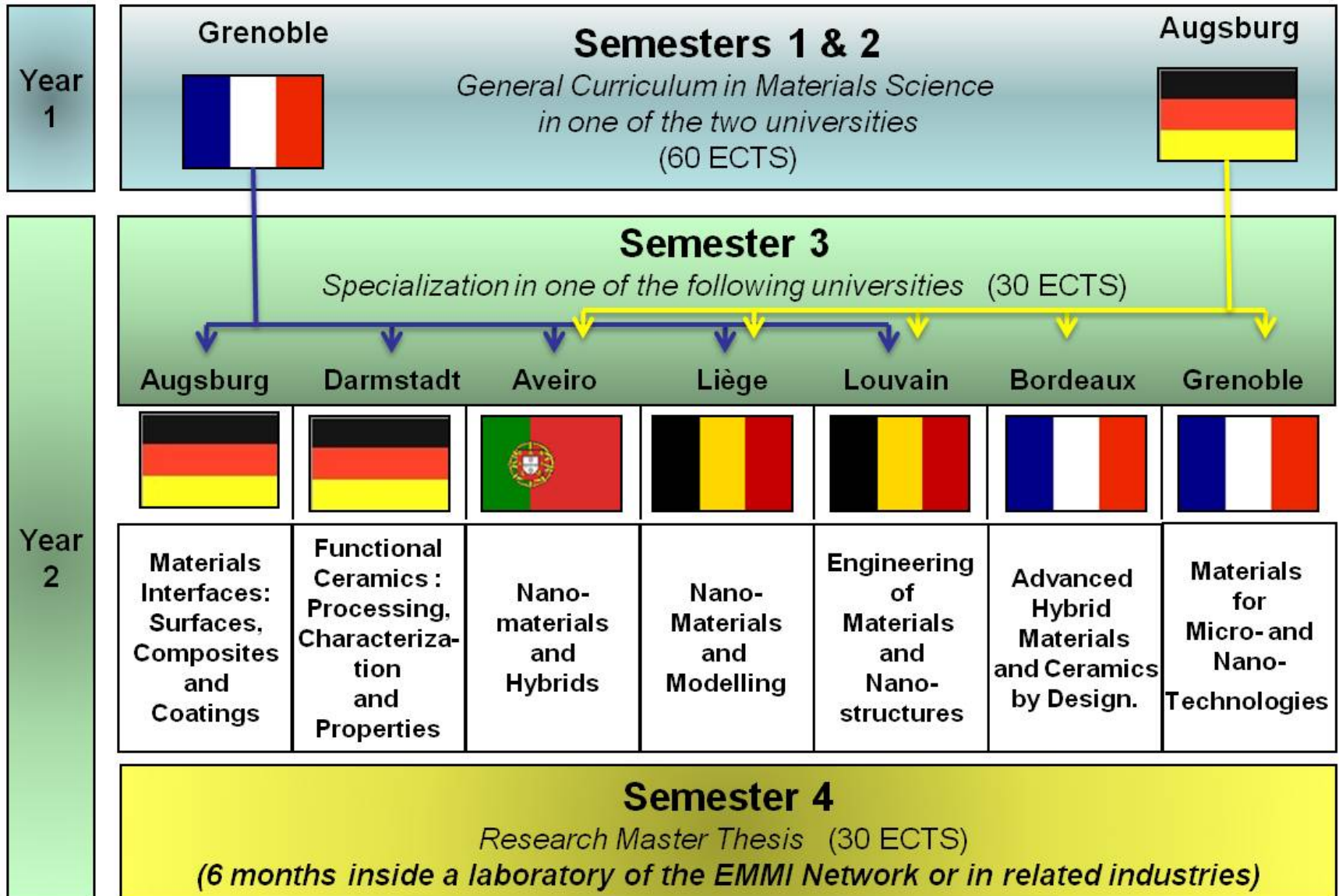
Enseignement en groupe, sur projet, à distance,  
blended mobility

**Master Erasmus Mundus FAME+**

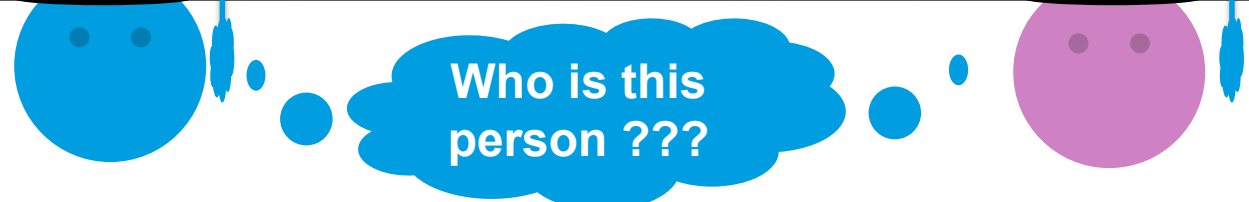
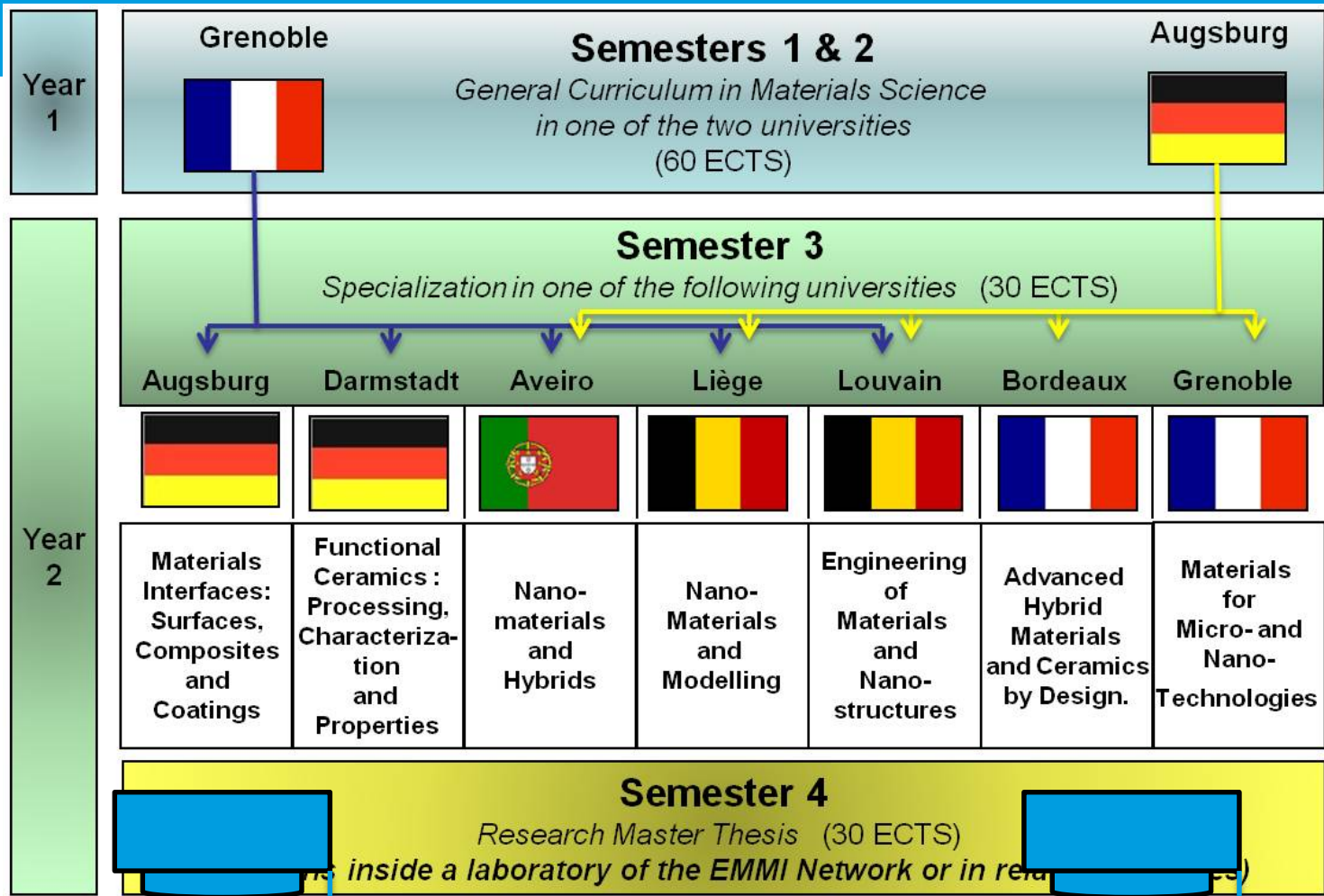
**Master EIT-AMIS**

Michaël Josse

# Master Erasmus Mundus FAME 2007-2012



# Master Erasmus Mundus FAME 2007-2012



**Certains étudiants ne se croiseront jamais au cours des deux ans !**



## Remote Project

### Aim:

- (i) Provide you some experience of **project management** in **distant teams**,
- (ii) Use **collaborative creation tools** (in the present case a **wiki** to setup a rudimentary website), and
- (iii) Write scientific reports for a *general* scientific audience.

### How:

- By the use of advanced materials for a given functional application, which is analyzed by small groups of students, spread over the two M1 Partners.
- Via **four assignments**, you will progressively build a **wiki website** which presents to a general scientific **non-specialized audience** the results of their investigation (why, how).
- The students are **supervised remotely** by a teacher/Tutor belonging to one of the partner Universities (Augsburg, Darmstadt, Liège, Louvain, Aveiro, Bordeaux and Grenoble).

Prof. A. Jonas, UCL, Belgique

# Remote Project Subjects

## 2012

design of coatings for window glass panes to decrease infrared heating of building and spare energy

## 2013

design of thin film structures for junction-based solar cells and improved energy efficiency

## 2014

critical appraisal of possibilities and limits of crystal chemistry

## 2015

use of computer simulations and supercomputing clusters to predict the emission properties of optically-active materials for more efficient light-emitting devices

2016 coatings for window

2017 *Solar Cells*

# Remote Project

## Course Content:

**The project is made of 4 modules of 10 hours work.**

**Each module runs over ~one month.**

1. A module starts by an assignment on this website,
2. Followed by two weeks of group and personal work, ended by a mid-term skype discussion of a few minutes with the tutor,
3. Followed by two further weeks of work,
4. Ending by the creation/completion of the wiki website designed for a general audience.
5. The resulting wiki website is discussed in a short skype interview with the tutor, before the next assignment is given.

*You are allowed to improve your previous wiki pages at any time, even after the end of a module, based on the comments provided by the tutor.*

# Remote Project

## Support :

**Via la plateforme Moodle / Outil Wiki**

- The **first module** of the project will be available in the 'Document' section
- A **set of documents** will be made available to help you start the project.
- **Inquiries** regarding the **use of this site** are to be directed to Prof. X.
- **Inquiries about the project** itself are to be directed to the **tutor** of the group.

## Evaluation :

The **evaluation is done by the tutor**, based on the: **interviews, quality of the work and wiki website.**

Part of the note will reflect the **ability of the students to organize;**  
*(for instance, systematic delays in completing the assignments, non-attendance to skype discussions, lack of respect of the requirements will result in a negative note for this part of the evaluation)*

# 2017: Demande de renouvellement du soutien Erasmus Mundus FAM/e-project : principes

The new version differs significantly from the previous one, by:

**2. adding an ambitious project of 10 credits for the acquisition of technical and softer skills, and for developing student awareness to societal and industrial issues,**

**6. increasing blended mobility by mixing online and physical meetings,**



## 2017: Demande de renouvellement du soutien Erasmus Mundus FAM/e-project : new features

running over a complete year, **groups of 3 to 4 students (Grenoble and Darmstadt)**  
**"learning by doing"**, integrating higher skills and goals, advanced scientific and technical content.

beyond previous expertise, double the volume of credits, and adding :

1. **blended mobility;**
2. **awareness to market relevance, industrial needs and societal concerns;**
3. **communication skills** (including modern tools);
4. **personal and inter-personal skills.**

**creating a sense of community**

# 2017: Demande de renouvellement du soutien Erasmus Mundus FAM/e-project : structure

*first module*, students acquainted with **basic communication and reporting tools**, **work in distant groups**, **remotely interacting with tutors** in other countries.

*second module*, **group work on the topic** of the project, substantial amount of simulations/computations/readings.

*third module* is based on **personal work**, aiming at digging deeper into a specific question. Students will be allowed to select freely this specific question.

## **FAMEfest**

one-week physical meeting

Several full days of work

creating a sense of community

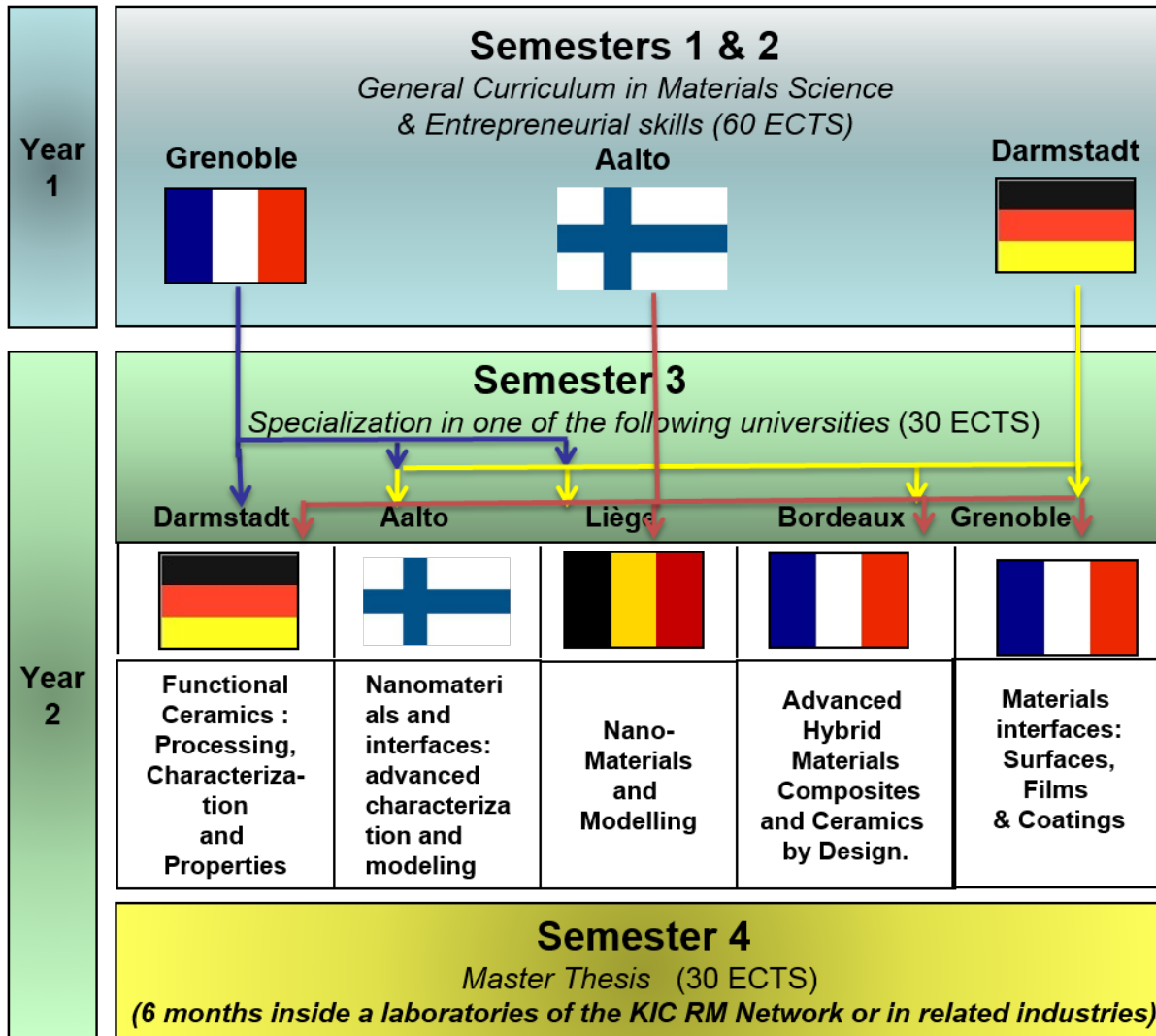
1. *Design of a reporting website.*
2. *Mid-term presentation of the work*
3. *Production of a 5 min. promotional video*

## **FAME Summer School**

4. *Final remote presentation of the work. (vs M2 students)*

➔ Onto implementation into another labelled European Master

# EIT-AMIS Curriculum and Mobility chart



EIT- Overarching LOS

Innovative learning :  
**Inno- project**  
 Inno-Mission / Internship  
 Innovation module :  
 management,  
 entrepreneurship



E-seminars  
 Summer camp  
 Innovation project  
 with academic,  
 industrial  
 and business school partners

## INNO-project I

**Identical to FAME Remote Project 2012-2018** (group work, distant work, project-based learning, learning by doing). Learning outcomes are essentially soft skills (no disciplinary knowledge evaluated, some gained anyway). **Ends with “Innovation” proposal** on the topic selected from the project

## INNO project II

Currently under construction, principle is to **build a business model from “Innovation” proposals** stemming from INNO-project I. Groups will be formed on a local basis (IP and business opportunities are managed on a national basis).

# Remote Project « To do list »

- Create IDNUM for students and tutors (yearly, UF Chimie)
- Assign students and tutors to groups (yearly)
- Create a dedicated Moodle course for each project (yearly, MAPI)
- Register students and tutors to the course (yearly)
- Create the groups in Moodle (yearly)
- Schedule the project (modules & co) (yearly)
- Communicate to students and tutors (monthly)
- Update files and infos in Moodle (monthly)
- Answer students/tutors questions/requests about IDNUMS (continuous, UF Chimie)
- Answer students/tutors questions and requests about Moodle (continuous, MAPI)
- Answer students/tutors questions and requests about the project (continuous)
- Solve problems and/or request help when needed (continuous, UF Chimie, MAPI)
- Extract data and content for evaluation purpose (yearly)
- Save the project globally (yearly, MAPI)



**FAME** MASTER  
Functionalized Advanced  
Materials and Engineering

**EMMI**  
Education, Research and Training Meeting

Citadines

Le POUJANT

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