



Co-funded by the
Erasmus+ Programme
of the European Union

MECA PROJECT

TRAINING WORKSHOP FOR TEACHERS ON JOB-LINKED EDUCATION IN RENEWABLE ENERGY BY THE EXPERTS FROM THE BUSINESS

Institut National d'Energie Solaire
Le Bourget du Lac, France

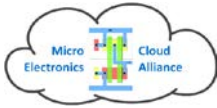
Participants

See the list of participants.

DAY 1: 7TH June

Presentation of INES and the most innovative projects on renewable energy, Magali ROUE





TRAINING WORKSHOP FOR TEACHERS ON JOB-LINKED EDUCATION IN RENEWABLE ENERGY BY THE BUSINESS EXPERTS Le Bourget du Lac 7th-8th June 2018



WP4 Organic & Perovskite solar cells for new applications and new generation of PV technology, Solenn BERSEN



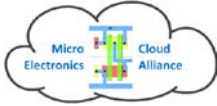
The videorecord of the lecture is published on the project Web site.

WP4 Discussion on the implementation of project-based education in mCloud .

Four of the business partners developed job-related courses:

- INOMA on : “Electronics maintenance in Renewable energies”
- AMG Technology: “Design, Prototype Fabrication and Challenging Applications of Silicon Microsystems with Piezoresistive Feedback”
- INES: “Silicon Homojunction Solar Cells ”
- ASTEL created a Video Lesson about main criticisms in handling semiconductor devices manufacturing. In this course the design of an optical inspection station of semiconductor wafers is presented.

Vladimir Stavrov, Paolo Astengo and Francisco Javier Leal Juarez performed practical training to the course developers and teachers on how to develop job-



TRAINING WORKSHOP FOR TEACHERS ON JOB-LINKED
EDUCATION IN RENEWABLE ENERGY BY THE BUSINESS EXPERTS
Le Bourget du Lac 7th-8th June 2018

related courses. They demonstrated their courses and provided examples from their experience in staff training.

DAY 2: 8TH June

W4 Visit of research institution of INES and all laboratories and training on the newest development in the use of solar energy by Mr. Philippe MALBRANCHE



Solar panels on the road – for charging the electrical cars in movement.

WP4 Development of job-specific training modules. The courses in the Educational Cloud, Oliver



TRAINING WORKSHOP FOR TEACHERS ON JOB-LINKED EDUCATION IN RENEWABLE ENERGY BY THE BUSINESS EXPERTS

Le Bourget du Lac 7th-8th June 2018

Oliver has shown the status of educational cloud with the courses. Not all courses are open educational resources and some are only PDF files.

No.	Title	Developed by	Style	OER?
1	Design for Manufacturing of Microsystems	UPB-CETTI	PDFs	Yes
2	Electronic Packaging and Assembling Technologies of Microsystems	UPB-CETTI	PDFs	Yes
3	Technology of Electronics Products	BME-ETT & Lightware	HTML + flash	Yes
4	Assembling and Inspection Technologies	BME-ETT & Lightware	HTML + flash	Yes
5	Virtual Laboratory Support for Microelectronics Packaging Education	BME-ETT & Lightware	HTML + flash	Yes
6	Multi-Media Enhancement of Teaching Sensors and MEMS	BME-ETT & Lightware	HTML + flash	Yes
7	Silicon Homojunction Solar Cells	INES-LITEN CEA Tech	Video presentation of ppt	Yes
8	Electronics Maintenance in Renewable Energies	INOMA Renovables, S.L.	moodle based	Yes
9	Electromagnetic Compatibility of Integrated Circuits	INSA Toulouse	ppt	Yes
10	Nano CMOS Cell Design with Microwind	INSA Toulouse	ppt	Yes
11	Design and Realisation of Micro-Nano-BioSensors	POLITO	moodle based	Yes
12	Modelling and Design of ULSI Circuits and Systems	POLITO	moodle based	Yes
13	Effective Communication with Groups, Presentation Techniques	TUB Berlin	PDFs	Yes
14	Project Management for the 21st Century	TUB Berlin	PDFs	Yes
15	Superconductive Materials	TUB Berlin	PDFs	Yes
16	The Importance of Soft Skills at the Labour Market	TUB Berlin	PDFs	Yes
17	Nanomaterials for Electronics	TUS Sofia & MASHO	Moodle	Yes
18	Design of Nanoscale MOS ICs	TUS Sofia & MASHO	Moodle	Yes
19	MEMS Sensors and Actuators	UKIM Skopje	Moodle	Yes
20	Semiconductor Device Modeling	UKIM Skopje	ppts within moodle	Yes



TRAINING WORKSHOP FOR TEACHERS ON JOB-LINKED
EDUCATION IN RENEWABLE ENERGY BY THE BUSINESS EXPERTS
Le Bourget du Lac 7th-8th June 2018

21	Integrated Circuits and Design	UNED-DIEEC	Moodle	Yes
22	Microelectronics Literacy and Technologies	UNED-DIEEC	Moodle	Yes
23	Design, Prototype Fabrication and Challenging Applications of Silicon Microsystems with Piezoresistive Feedback	AMG Technology	Moodle	Yes

WP4 Projects, real cases from the industry

Four of the business partners developed job-related courses:

- INOMA on : “Electronics maintenance in Renewable energies”
- AMG Technology: “Design, Prototype Fabrication and Challenging Applications of Silicon Microsystems with Piezoresistive Feedback”
- INES: “Silicon Homojunction Solar Cells ”
- ASTEL created a Video Lesson about main criticisms in handling semiconductor devices manufacturing. In this course the design of an optical inspection station of semiconductor wafers is presented.

WP1 ToDo List

- Contracts between HEIs and business – continuous
- To develop assignments for different student’s activities (projects) for interactivity of courses.
- Plan for the field trial by each university – 15 June 2018
- Plan for sharing resources and free software – Suggestion by each HEI – next virtual meeting
- Next virtual meeting on 12th July 2018 at 11:00 CET for planning the hardware and software sharing and accepting the template CloudStack (Adobe Connect, Appear.in).
- Next training seminar for teachers – in Skopje on 8th – 9th October 2018