

Industrial Engineering and Management of the Future?

CLUSTER IEM meeting, 6-9 June 2017, Grenoble France

OBJECTIVES

- (i) Elaborate a CLUSTER IEM strategic response to the development of the “Industry of the future (or 4.0)” in our countries. Take a step back to articulate a “shared vision” of what Industry of the Future is, its impact on our students future jobs and expected skills, and, as a consequence, on our Industrial Engineering and Management teaching curriculum. Focus on explicit consequences for our network.

- (ii) Bring out some specificities of each partner in connection with the “industry of the future (4.0)” that may attract our exchanged students. The aim is to articulate highlights for our international exchanges supply. The idea here is to define a core attractive difference for each partner and to design a 30 ECTS package per partner around this core. We’re clearly not looking for homogenized contents, though a standard format for semester exchanges would ease our exchange organization.

- (iii) Try to identify two or three projects of “shared courses” organized between two or three of our institutions. The idea here is to share resources within our network.

- (iv) Try to bring out one or two common projects such as special event e.g. summer (winter) school on IEM for the industry of the future. These would involve partners, students and companies.

PROGRAMME

Tuesday 6 June

13.30: Opening session

- Prof Brigitte Plateau, President Grenoble INP;
- Dr Jeanne Duvallet, President Cluster IEM network;
- Prof Bernard Ruffieux, Director Grenoble INP Industrial Engineering School and Prof Janerik Lundquist, Linkoping University

14.00: Industry of the future Conference (*Session 1: Production System*)

- 14.00: Industrial presentation, Stéphane Descarpentries, FM Logistic
- 14.20: Industrial presentation, Jean-Christophe Trochet, VI Technology
- 14.40: Research presentation: Dr Gulgun Alpan, G-SCOP, “Logistics issues”
- 15.00: Research presentation: XX, European Cluster IEM partner (tbd)
- 15.20: Coffee break
- 15.50: Roundtable “production systems 4.0 management: engineers’ skills” with Stéphane Descarpentries, FM Logistic; Jean-Christophe Trochet, VI Technology; XX, European Cluster IEM partner (tbd); XX, Cluster IEM partner (tbd); coordinated by YY, Grenoble INP and ZZ, Student

17.10: End of session 1

Wednesday 7 June

9.00: Industry of the future Conference (*Session 2: Technologies*)

- 9.00: Industrial presentation: Marc Alochet, Renault
- 9.20: Industrial presentation: Jean-Luc Bessede, Schneider Electric
- 9.40: Research presentation: Peggy Zwolinski, G-SCOP “product and production issues”
- 10.00: Research presentation: XX, European Cluster IEM partner (tbd)
- 10.20: Coffee break
- 10.50: Roundtable “Technologies in the production systems 4.0: engineers’ skills” with Marc Alochet, Renault; Jean-Luc Bessede, Schneider Electric; XX, European Cluster IEM partner (tbd); XX, Cluster IEM partner (tbd); coordinated by YY, Grenoble INP and ZZ, Student

12.10: End of session 2

12.10: Lunch

14.00: Industry of the future Conference (Session 3: Demand and Value)

- 14.00: Industrial presentation: Stéphane Hubac, ST Microelectronics
- 14.20: Industrial presentation: **Remy Forastier, Amazon**
- 14.40: Research presentation: Laurent Muller/Paolo Crossetto, GAEL “Values issues”
- 15.00: XX, European Cluster IEM partner (tbd)
- 15.20: Coffee break
- 15.50: Roundtable “Values and demands for industry 4.0: engineers’ skills” with Stéphane Hubac, ST Microelectronics; Remy Forastier, Amazon; XX, European Cluster IEM partner (tbd); XX, Cluster IEM partner (tbd); coordinated by YY, Grenoble INP and ZZ, Student

17.10: End of session 3

18.00: Cluster IEM board meeting then dinner

Thursday 8 June

9.00: Work session 1 “IEM engineer of the future’ competencies”

- Coordinated by Dr Lilia Gzara, Grenoble INP
- Based on survey results and roundtable conclusions, the debate should go to the list of the new competences expected for the IEM engineer of the future.

12.00: End of work session 1

12.00: Lunch

14.00: Work session 2 “Exchange semester packages”

- Coordinated by Prof Frédéric Noel and Prof Yannick Frein, Grenoble INP
- Debate on the specialties of the IEM network and each of its members.
- Objective: a coherent package offered to students for an exchange semester at a partner’s place.

17.00: End of work session 2

19.00: Social event

Friday 9 June

9.00: Work sessions 3 “Joint courses and common events content elaboration”

- To be determined with the CLUSTER participants.

12.00: End of work sessions 3

12.00: Lunch