THE IMS SUMMER SCHOOL

MANUFACTURING STRATEGY

1ST EDITION 2010

SUSTAINABLE MANUFACTURING

ETH ZÜRICH, MAY 26—28, 2010

The IMS Community is proud to launch the IMS *Summer School* on manufacturing strategy. The *IMS Summer School* will be an annual event in order to develop competences and to educate beneficiaries and members from industry and research on new global approaches to manufacturing strategy.

The first *IMS Summer School* is organised by the IMS2020 FP7 project (www.ims2020.net) and cosponsored by IFIP WG5.7 (www.ifip.org). The theme of the *IMS Summer School 2010* is **Sustainable manufacturing**. This is one of the five IMS Key Areas: Sustainable Manufacturing, Products and Services, Energy Efficient Manufacturing, Key Technologies, Standards & Interoperability and Education.

Sustainable manufacturing is meant to apply scientific knowledge to the design and implementation of material, structures, product, systems, processes etc. that in global markets should be taken into account:
- constraints coming from the four pillars of sustainability (economy, environment, society and technology)
- solutions development for the design, operation and organisational activities related to products, processes and services in the manufacturing sector

The *IMS Summer School 2010* on Sustainable Manufacturing approaches two evolving research topics:
- *Sustainable lifecycle of products and production systems*
- *Sustainable products and production, services and maintenance*

Young researchers and industry practitioners with special interest in these topics are invited to present problems, share knowledge and discuss these topics in plenary and parallel sessions during the summer school.
- Participants from research will present research projects
- Participants from industry will present real challenges and discuss solutions

The *IMS Summer School* will be held in a creative, stimulating formal and informal environment, thus providing a productive infrastructure for social networking. International researchers, professionals and experienced practitioners in industry are welcome to apply for the *IMS Summer School*. Lectures and other learning activities will be done with the active contribution of the participants, this will create the best environment to allow and encourage PhD students and professionals exchange and knowledge sharing.

The maximum number of participants will be 30. Appropriate selection criteria for the applicants (such as publications and reports, letters of recommendation, awards, industrial experience, etc.) will be applied.

Scientific committee
- Professor Marco Taisch, POLIMI
- Dr. Dimitris Kiritsis, EPFL
- Professor Paul Schönsleben, ETHZ
- Professor Thomas Kurfess, Clemson University
- Professor Marco Garetti, POLIMI
- Professor Asbjørn Rolstadås, NTNU
- Dr. Augusta Maria Paci, CNR
- Dr. Emanuele Carpanzano, CNR-ITIA

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THE IMS SUMMER SCHOOL
GENERAL PROGRAMME

May 26th 1000 - 1700	
10.00 – 10.15	Welcome and Practical Matters *Prof. Paul Schönsleben ETHZ*
10.15 – 11.00	Key-note *Mr. Giorgio Pasquettaz, CRF Italy*
11.00 – 12.00	Key-note *Dr. Vijay Srinivasan, NIST USA*
12.00 – 13.30	Lunch
13.30 – 17.30	Parallel sessions

	Workshop 1 Sustainable lifecycle of products and production systems	Workshop 2 Sustainable products and production, services and maintenance
	Chair: Dr. Vijay Srinivasan Mr. Giorgio Pasquettas	*Chair: Dr. Dimitris Kiritsis Prof. Marco Garetti*

May 27th 0900 - 1730		
09.00 – 12.00	Parallel sessions	
	Workshop 1 Sustainable lifecycle of products and production systems	Workshop 2 Sustainable products and production, services and maintenance
12.00 – 13.00	Lunch	
13.00 – 14.45	Parallel sessions cont.	
15.00 – 16.30	Plenary, presentations and discussion of workshop outcomes *Prof. Asbjørn Rolstadås, NTNU*	
16.30 – 17.15	Key-note *Volker Stich, FIR*	
17.15 – 17.30	Wrap-up *Prof. Marco Taisch, POLIMI*	

May 28th 0900 - 1300	
09.00 – 12.00	Industry visit ABB
12.00 – 14.00	Lunch

Important dates in 2010:

- Application deadline: **February 10**
- Paper first submission: **March 15**
- Review feedback by: **April 15**
- Paper final submission: **May 10**

Accommodation:
Hotels must be booked and paid by each participant. Go to the summer school web site for further information and links to hotels. Special fares for university activities are available.

Organising committee:
- Bjørn Moseng, Sintef
- Matthias Vodicka, ETHZ
- Katharina Bunse, ETHZ
- Astrid Vigtil, NTNU

Applicants are welcome to register by submitting an e-mail with the following information: *Name, organization, position held, CV, invited by, e-mail address, phone no, preferred workshop topic, recommendations letters and a motivation letter* to **summerschool@ims2020.net** by **February 10th 2010.** Participation is limited and by invitation only. All applicants will receive a prompt reply with a motivated decision of the IMS Summer School scientific committee. **NO PARTICIPATION FEE**

The motivation letter should state the applicant's contribution to the workshop; the presentation of a submitted research paper, an industry problem for discussion or a research problem for discussion.

Researchers are invited to submit a manuscript for a scientific paper. Paper requirements:
- Full paper, maximum 8000 words
- Abstract, maximum 250 words, 3-5 key-words
- Times New Roman 12
- Numbered sections and subsections
- Captions numbered, above tables and below figures
- Figures and tables included in text

Papers should be sent as a Word file attachment in an e-mail to **summerschool@ims2020.net** by **March 15th. 2010**. A selection of scientific papers are published as a book in the Springer IFIP series.

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