



# APMS 2010

## INSTRUCTIONS FOR DOCTORAL WORKSHOP

### General information

#### Schedule and venue

The Doctoral Workshop will be held in two parallel sessions on Saturday, October 9, 2010, at 14.00 - 18.15, and continues on Sunday, October 10, at 9.30 – 12.45.

The workshop venue is Grand Hotel Como in Cernobbio, situated half-way between Como town centre and Cernobbio. Presentations will take place in Room Carlotta and Room Balbianello.

#### Participants

The participants of the Doctoral Workshop are PhD students that conduct research in the scientific field of the APMS 2010 “Competitive and Sustainable Manufacturing, Products and Services” conference. 18 students have been selected to present their doctoral thesis research plans and also act as peer reviewers. The participants are:

| PhD student        | University                                | Country         |
|--------------------|---|-----------------|
| Emrah Arica        | NTNU – Norwegian University of Technology | Norway          |
| Pinar Baban        | University of Exeter                      | United Kingdom  |
| Katharina Bunse    | ETH Zurich                                | Switzerland     |
| Serra Caner        | University of Groningen                   | The Netherlands |
| Kirsty Doyle       | Strathclyde University                    | United Kingdom  |
| Gillian Hatcher    | Strathclyde University                    | United Kingdom  |
| Antero Hirvensalo  | Aalto University                          | Finland         |
| Annachiara Longoni | Politecnico di Milano                     | Italy           |
| Malek Maalouf      | Copenhagen Business School                | Denmark         |
| Dirk Oedekoven     | FIR RWTH Aachen University                | Germany         |
| Daryl John Powell  | NTNU – Norwegian University of Technology | Norway          |
| Barbara Resta      | Università degli Studi di Bergamo         | Italy           |

|                      |   |                |
|----------------------|---|----------------|
| Anita Romsdal        | NTNU – Norwegian University of Technology | Norway         |
| Christian Schneider  | ETH Zurich                                | Switzerland    |
| Wolfgang Seiringer   | AKAtech Produktions – und Handels GmbH    | Austria        |
| David Graham Stewart | Strathclyde University                    | United Kingdom |
| Ondrej Winkler       | VSB – Technical University Ostrava        | Czech Republic |
| Juan Jose Zulaika    | Fatronik – Tecnalia                       | Spain          |

A scientific committee, involving experienced researchers and professors, has been established in order to provide an in-depth discussion and review of the PhD proposals. Invited members of the committee are:

| <b>Professor</b>       | <b>University</b>                             | <b>Country</b> |
|------------------------|---|----------------|
| Abdelaziz Bouras       | University Lumière Lyon 2                     | France         |
| Sergio Cavalieri       | Università degli Studi di Bergamo             | Italy          |
| Heidi Dreyer           | Sintef  | Norway         |
| Christos Emmanouilidis | CETI / Athena, Research and Innovation Centre | Greece         |
| Dimitris Kiritsis      | EPFL Lausanne                                 | Switzerland    |
| Thomas R. Kurfess      | Clemson University, South Carolina            | United States  |
| Irenilza A. Nääs       | Universidade Paulista                         | Brazil         |
| Dan Shunk              | Arizona State University                      | United States  |
| Mario Tucci            | Università degli Studi di Firenze             | Italy          |

This committee is also entitled to select the best PhD work for the assignment of the Doctoral Workshop Award.



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### Guidelines for the participants

The workshop will consist of presentations and discussions of the selected doctoral thesis research plans. For each presentation, altogether 40 minutes are reserved:

- 20 minutes for the oral presentation (PowerPoint can be used)
- 10 minutes for the peer review (PowerPoint can be used)
- 10 minutes for the supervisor's comments and general discussion

Between each presentation 5 minutes are planned as set-up time.

#### **Presenters:**

The maximum length of your research plan is 15 pages and it is of course a working plan that still develops.

The oral presentation should not exceed 20 minutes and it should address the following main points:

1. Problem statement / objective of the thesis
2. Theoretical background and research gap
3. Research questions
4. Methodology and data
5. Expected results and contribution to theory and practice

#### **Peer reviewers:**

As a presenter, you also act as peer reviewer to another research plan and presentation. You are expected to read the research plan assigned to you in advance and to prepare a 10 minute presentation on it. PowerPoint can be used.

Combinations are the following:

| <b>Peer reviewer</b> | <b>Presenter</b>     |
|----------------------|----------------------|
| Emrah Arica          | Gillian Hatcher      |
| Pinar Baban          | Wolfgang Seiringer   |
| Katharina Bunse      | Antero Hirvensalo    |
| Serra Caner          | Dirk Oedekoven       |
| Kirsty Doyle         | Juan Jose Zulaika    |
| Gillian Hatcher      | Daryl John Powell    |
| Antero Hirvensalo    | Emrah Arica          |
| Annachiara Longoni   | Katharina Bunse      |
| Malek Maalouf        | Annachiara Longoni   |
| Dirk Oedekoven       | Ondrej Winkler       |
| Daryl John Powell    | Christian Schneider  |
| Barbara Resta        | Kirsty Doyle         |
| Anita Romsdal        | David Graham Stewart |
| Christian Schneider  | Pinar Baban          |
| Wolfgang Seiringer   | Barbara Resta        |
| David Graham Stewart | Serra Caner          |
| Ondrej Winkler       | Malek Maalouf        |
| Juan Jose Zulaika    | Anita Romsdal        |

Date and time of the presentations are in the programme.

#### **Discussants and supervisors:**

As scientific discussant, you have been assigned two research plans and presentations. We kindly ask you to read through the research plans beforehand and prepare comments. The combined time for your comments and joint discussion is 10 minutes.

| <b>Scientific Discussant</b> | <b>Presenters</b>                        |
|------------------------------|--|
| Abdelaziz Bouras             | Malek Maalouf<br>Ondrej Winkler          |
| Sergio Cavalieri             | Pinar Baban<br>Kirsty Doyle              |
| Heidi Dreyer                 | Antero Hirvensalo<br>Annachiara Longoni  |
| Christos Emmanouilidis       | Serra Caner<br>Gillian Hatcher           |
| Dimitris Kiritsis            | Dirk Oedekoven<br>Juan Jose Zulaika      |
| Thomas R. Kurfess            | Barbara Resta<br>Wolfgang Seiringer      |
| Irenilza A. Nääs             | Daryl John Powell<br>Christian Schneider |
| Dan Shunk                    | Katharina Bunse<br>Anita Romsdal         |
| Mario Tucci                  | Emrah Arica<br>David Graham Stewart      |



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## DOCTORAL WORKSHOP PROGRAMME

**Saturday, October 9, 2010**

### Session 1 – Room Carlotta

Chairman: Prof. Sergio Cavalieri

|               |   |
|---------------|---|
| 14.00 – 14.15 | <b>Welcome to the APMS 2010 Doctoral Workshop</b><br>Sergio Cavalieri, Università degli Studi di Bergamo  |
| 14.15 – 15.00 | <b>The role of organisational practices in sustainable operations management</b><br>Annachiara Longoni  |
| 15.00 – 15.45 | <b>Closing the loop: competition and cooperation in remanufacturing</b><br>Serra Caner  |
| 15.45 – 16.00 | Coffee break  |
| 16.00 – 16.45 | <b>Development of communication model for data transfer between MES and ERP systems for SMEs</b><br>Ondrej Winkler                              |
| 16.45 – 17.30 | <b>Sustainable Product Service System: a conceptual framework</b><br>Barbara Resta  |
| 17.30 – 18.15 | <b>Supply chain quality management: analysing service-based relations within a supply chain in the manufacturing environment</b><br>Pinar Baban |

### Session 2 – Room Balbianello

Chairman: Prof. Mario Tucci

|               |   |
|---------------|---|
| 14.00 – 14.15 | <b>Welcome to the APMS 2010 Doctoral Workshop</b><br>Mario Tucci, Università degli Studi di Firenze |
| 14.15 – 15.00 | <b>Fuzzy Hierarchical Production Planning and Scheduling</b><br>Emrah Arica                         |

|               |  |
|---------------|--|
| 15.00 – 15.45 | <b>Development of a holistic eco-design methodology for conceiving eco-efficient and highly productive machine tools</b><br>Juan Jose Zulaika        |
| 15.45 – 16.00 | Coffee break   |
| 16.00 – 16.45 | <b>Enhanced production management approaches – integrating energy efficiency performance in company decision making processes</b><br>Katharina Bunse |
| 16.45 – 17.30 | <b>Advancing Lean Production: the role of ICT</b><br>Daryl John Powell   |
| 17.30 – 18.15 | <b>Development of the reverse logistics process: managing uncertainty</b><br>David Graham Stewart  |

## Sunday, October 10, 2010

### Session 1 – Room Carlotta

Chairman: Prof. Sergio Cavalieri

|               |  |
|---------------|--|
| 9.30- 10.15   | <b>Facilitation of collaborative knowledge construction in organizational process development</b><br>Antero Hirvensalo |
| 10.15 – 11.00 | <b>How to determine the End of Life of a product in the early stages of product design</b><br>Kirsty Doyle             |
| 11.00 – 11.15 | Coffee break   |
| 11.15 – 12.00 | <b>Investigating the relation between organizational context and knowledge creation</b><br>Malek Maalouf               |
| 12.00 – 12.45 | <b>Investigation of remanufacturing issues in product design</b><br>Gillian Hatcher                                    |

### Session 2 – Room Balbianello

Chairman: Prof. Mario Tucci

|               |  |
|---------------|--|
| 9.30- 10.15   | <b>Service-Oriented Analysis of companies in the manufacturing industry – constructing a cost model for services</b><br>Wolfgang Seiringer |
| 10.15 – 11.00 | <b>Mastering global sourcing: transactions and organisational structures</b><br>Christian Schneider  |
| 11.00 – 11.15 | Coffee break   |
| 11.15 – 12.00 | <b>Inter-organisational information sharing for differentiated planning and control in fresh food supply chains</b><br>Anita Romsdal       |
| 12.00 – 12.45 | <b>Value added by interoperable information systems in spread production networks</b><br>Dirk Oedekoven                                    |