



# PLM'05 International Conference on Product Lifecycle Management

IUT Lumiere – Lumiere University of Lyon, France

11 – 13 July 2005



## PLM'05 PROGRAM

### Monday July 11<sup>th</sup>, 2005

8:00 – 8:50

*Registration and welcome coffee*

8:50 – 9:10

**Opening (PLM'05 Chairs)**

9:10 – 10:00

**Keynote Speaker**

**Dr. Erastos Filos, European Commission, Brussels**

10:00 – 10:30

**Coffee Break & DEMO**

10:30 – 12:30

**Session T1**

#### Ontologies and information models

- Development of Formal Ontology for Product Design Life Cycle  
*M.P. Kesavadas, A. Paygude, K. Bandi and T. Kesavadas - Lateral Eye, Clarence; and University at Buffalo, NY (USA)*
- The Product Avatar as a Product-Instance-Centric Information Management Concept  
*K. A. Hribernik, L. Rabe, J. Schumacher and K-D. Thoben ; University of Bremen (Germany)*
- A Core Product Model for PLM with an illustrative XML Implementation,  
*S. Fofou, S. J. Fenves, C. Bock, Sudarsan, Rachuri and Ram D. Sriram, NIST, (USA)*
- Extracting engineering knowledge from PLM Systems: An experimental approach  
*S. Gomes, P. Serrafero, D. Monticolo and B. Eynard – UTMB Belfort-Montbelliard, ECL Lyon & UTT Troyes (France)*
- Product lifecycle information modeling with RDF  
*H-B. Jun, D. Kiritsis, and P. Xirouchakis, EPFL Lausanne (Switzerland)*
- Information models to support reconfigurable manufacturing systems design  
*D. A. Guerra, R. Rosas, R. Camacho and A. Molina – ITESM, Monterrey, NL (Mexico)*

12:30 – 1:30

**Lunch**

1:30- 3:10

**Session T2**

**Session T3**

#### Collaborative design and manufacturing

- Use of collaborative knowledge and formalized exchanges to manage collaborative design environment  
*B. Rose, V. Robin, M. Lombard and Ph. Girard - Faculty of Science, Vandoeuvre-lès-Nancy; and University of Bordeaux, Talence (France)*
- Development of a Collaborative and Integrated Design and Manufacturing Service Platform for Injection Mold Industry  
*T-H. Lu, A. J.C. Trappey, Y-C. Hsu, K. Chang - ITRI and NTH University, Hsinchu (Taiwan)*
- Framework for Managing Preliminary Information in Collaborative Design Processes  
*K. Grebici, E. Blanco and D. Rieu – INPG and IMAG,*

#### PLM/SCM integration initiatives - IMS NoE Session -

- Ontology-Based Support for Semantic Interoperability between SCM and PLM  
*A. Smirnov, M. Pashkin, T. Levashova, N. Chilov - St.Petersburg Institute for Informatics and Automation, Russian Academy of Sciences (Russia)*
- Levels of knowledge representation for Product Design  
*G. Colombo, U. Cugini, D. Pugliese, M. Pulli - Politecnico di Milano (Italy)*
- The Value Chain Operations Reference Model as a Framework to Integrate and Manage Cross-Enterprise Business Processes

Grenoble (France)

- Involvement of salesmen in collaborative design using DMU

*E. Massias, R. Sorito, D. Deneux - Robert Bosch, Schwieberdingen (Germany); and University of Valenciennes (France)*

- A Dynamic multi-view product model to share the product behaviours among designers  
*F. Noël, Grenoble University (France)*

- Product Life Cycle Support and Project management: mutual contributions  
*X. Jin, L. Koskela, T. King, LSC Group - Staffordshire; and University of Salford (UK)*

*H. Heinzel, Business Process Training Center Europe BTC, Neusaess (Germany)*

- Lifecycle Implications of Supporting Innovation in Product-Service Solution  
*M. Sorlini, R. Fornasiero - ITIA-CNR, Milano (Italy)*

- Managing performance in the product lifecycle – a case study from tender to support  
*P. D. Ball, K. Mendibil and U. S. Bititci - University of Strathclyde (UK)*

- Analysis of PLM dimensions,  
*S. Terzi, M. Flores, M. Garetti, M. Macchi - Università degli Studi di Bergamo, Politecnico di Milano (Italy) and University of Applied Sciences of Southern Switzerland (Switzerland)*

3:10- 3 :45

Coffee Break & DEMO

3:45 – 5:45

### Industrial Session I1

**Define the roadmap and requirements engineering of PLM value chain (innovation, cost reduction, efficiency, etc.)**

- PLM: see and share what you mean.  
*Francis Bernard, Executive Committee Advisor, Dassault Systèmes, France*
- PLM roadmap to enable innovation.  
*John Miller, UGS, USA*
- Sustainable complexity reduction in manufactured products  
*Jochim Ebert, AT Kearney*
- Customer experience: Implementation of a PLM project.  
*Nicolas Fritsch, Head of Engineering Office, Federal Mogul*
- Standards for data quality, and management of engineering changes  
*Alexandre LOIRE, Engineering Projects Manager, Galia, France*

8:00pm  
(approx)

**PLM'05 Gala Dinner at Abbaye de Collonges  
and Best Paper Award**

**Tuesday July 12<sup>th</sup>, 2005**

7:30 – 8:00

Registration and welcome coffee

8:00 - 10:30

### Industrial Session I2

**Challenges faced in “state of the art” PLM systems (What can't we do, why Interoperability, IT issues, people/culture issues, etc)**

- Fast Innovation Fast Execution  
*Jay Kim, CADLAB & LG electronics, Korea*
- Standards-based PLM interoperability across your entire supply chain  
*Andrew Lukes, CEO of Federation, Inc.*
- Collaboration through PLM to reduce Time To Market  
*Philippe Guillemant, PCI, Mathieu Keller LASCOR*
- PLM for SMBs, from concept to reality.  
*Kamal Cheballah, Assetium, France*
- Real Life problems in Product Data Sharing: bottlenecks and deadlocks in 3D models exchanges.  
*Jean Marc Brun, Coretech International, France*
- How to Take Advantage of Classification in Teamcenter Engineering  
*Jurgen Hillemann, BCT*

10:30 – 11:00

Coffee Break & DEMO

**Panel**

11:00 – 12:30

## Academia/Industry research collaboration, technology transfer and role of standards

Chair: Dr. Ram SRIRAM, NIST, USA

- What are the fundamental and advanced research topics that industry seeks university /academia collaboration?
- What are the approaches/methodologies for technology transfer?
- What are the existing resources? What are the needs?
- What is the role of standards in the deployment and transfer of solutions?
- What are the future directions for innovation?

12:30 – 1:30

Lunch

1:30- 3 :10

### Session T4

### Session T5

#### Information Architectures and Implementation

- DIJA system: a CAD solution for collaboration between designers and manufacturers  
Y. Gardan, M. Hilléreau and E. Perrin - *IFTS, Charleville-Mézières; and Metz University (France)*
- Modelling Web-services for PLM N-tier Architecture  
I. Georgiev and J. Ovtcharova - *Metro State College of Denver (USA); and University Karlsruhe (Germany)*
- Parametric Object Reuse within Product Lifecycle Management  
J. Lund, N. Fife, C. Greg Jensen - *Brigham Young University, Provo, UT (USA)*
- Experiences in implementing ALM Tools: An action Research Approach  
N. Penaranda, A. Molina, J. Aca – *ITESM, Monterrey (Mexico)*
- Design of a web service platform for B2B products exchange based on PLIB ontology, RosettaNet PIPs and ebXML Registry  
Y. Aklouf, G. Pierra, Y. Ait Ameer and H. Drias - *ENSMA, Futuroscope (France); and USTHB, Algiers (Algeria)*

#### Product, Process and Workflow Management

- PDM-based Tool for Hazard Identification in plant design  
S. M. Ansaldi, F. Giannini, M. Monti and P. Bragatto - *IMATI-CNR, Genova; and DIPIA-ISPEL Monte Porzio (Italy)*
- Environment for managing collaboration  
M. Callot, L. Saint-Marc, J-C. Deschamps and Bruno Trebuçq - *EADS CRC; University Bordeaux 1; and PCO Technologies, St-Priest (France)*
- Synthesising the extended enterprise  
D. Darlington, C. Barnes, A. McKay - *University of Leeds, (UK)*
- Systems Engineering Processes Deployment for PLM  
M. Mssaadia, M. H. El-Djamal, A. E. K. Sahraoui - *CNRS/University of Toulouse (France)*
- Data integration in Product Lifecycle Management: an ontology-based approach  
S. Mostefai and M. Batouche - *Mentouri University of Constantine (Algeria)*
- Flexibility in PLM Deployment Processes: Focus on Workflow and Services  
L. Gzara Yesilbas – *CRAN CNRS, Vandoeuvre-Les-Nancy (France)*

3:10- 3 :30

Coffee Break & DEMO

3 :30 – 5 :30

### Session T6

### Session T7

#### Product planning

- The Role of the Demand Chain in Developing Product Life Cycle Strategy  
D. Walters, *Sydney Graduate School of Management, NSW (Australia)*
- Planning and Control System for Web-based Collaborative Media Product Development  
C. Y Ching and H-E Wu - *Shih Hsin University, Taipei (Taiwan)*
- Identification of real options for product family configuration design  
C. M. Lim, Jianxin Jiao, Arun Kumar and Yiyang Zhang, *Nanyang Technological University (Singapore)*
- Development of Process Template for Product Planning and Definition, T. Tsuyama, T. Adachi, Y. Yokoyama, T. Suzuki, H. Ushijima, J. Akutsu and A. Shouse - *Hitachi, Yokohama (Japan)*
- Line Balancing in the Real World  
E. Falkenauer - *Optimal Design, Brussels (Belgium)*

#### Product Assembly and Design

- Progresses in assembly path planning  
E. Ferré, J-P. Laumond, G. Arechavaleta, C. Estevès - *KINEO C.A.M. Prologue, Labège; and CNRS, Toulouse (France)*
- Automatic Arrangement of Product Parts, Assemblies and Modules  
B. Culha - *Karlsruhe University (Germany)*
- Process Automation and Design Optimization within Industrial PLM Systems  
N. Fife, J. Lund and C. Greg Jensen - *Brigham Young University, Provo, UT (USA)*
- Integration of User's requirements in preliminary design Application to parabolic ski in basic turn  
R. Dore, J. Pailhes, X. Fischer and J.-P. Nadeau - *CNRS, Talence; Technopole Izarbel, Bidart (France)*
- Augmented Tangible Interfaces For CAD Design Review  
R. Sidharta, A. Sannier and J. Oliver – *Iowa State University, Ames, IA (USA)*

6:30pm  
(approx)

Reception at Hotel de Ville of Lyon

At 8:15pm

## Hermès Boat ride and dinner (optional)

# Wednesday July 13<sup>th</sup>, 2005

7 :45 – 8:00

*Registration and welcome coffee*

8:00 – 8:10

**Opening**

8:10 – 9 :00

**Keynote Speaker**

**Identity and Product Lifecycle Management: A role for RFID?**  
*Professor Duncan McFarlane, Cambridge University (UK)*

9:00 – 10 :20

**Session T8**

## Project Management

- The maturity of Product Lifecycle Management in Dutch organizations - A strategic alignment perspective  
*R. Batenburg, R. W. Helms and J. Versendaal – Utrecht University (The Netherlands)*
- From PDM systems to integrated project management systems : a case study  
*G. Pol, C. Merlo, G. Jared and J. Legardeur - Technopole Izarbel, Bidard (France); and Cranfield University, Bedfordshire (UK)*
- Building Lifecycle Management  
*S. Bonandrini, C. Cruz and Ch. Nicolle - Active3D-Lab; and University of Bourgogne (France)*

10 :20 –  
10 :45

**Coffee break & DEMO**

10 :45 –  
12 :30

**Session T9**

## PLM and Information Exchange Standards

- Open Standards for Product Lifecycle Management  
*V. Srinivasan, IBM - White Plains, NY (USA)*
- Integration of history-based parametric translators using the automation API  
*B. Kim, S. Han – KAIST, Daejeon (Korea)*
- Challenges in Supporting Product Design and Manufacturing in a Networked Economy: a PLM Perspective  
*E. Subrahmanian, R. Sudarsan, S. J. Fenves, S. Fofou and R. D. Sriram - NIST, Gaithersburg, MD, (USA)*
- Improvement of 3D data exchanges in the product lifecycle management  
*S. Charles, G. Ducellier, L. Li, B. Eynard - Troyes University of Technology (France)*

12:30 – 1:30

**Lunch**

1 :30 – 3 :10

**Session T10**

## Applications

- Achieving competitive differentiation – The PLM Dimension  
*V. Ohri, Daimler Chrysler R&T India, Bangalore (India)*

- Automotive Product Design and Development – The current state and looking into the future  
*D. Verma - PTC Troy, MI (USA)*
- Product Change Process Management within Industrial Companies by Value Management Approach  
*H. Omri, M. Tollenaere and B. Bejar-Ghadhab - ENIT Tunis (Tunisie) and ENSGI-INPG Grenoble (France)*
- Product Lifecycle Management for the US Army Weapon Systems Acquisition  
*R. G. Iyer and T. Gullledge – TARDEC, Warren, MI and George Mason University, Fairfax, VI (USA)*
- A comparison of molding technologies for plastic component production by an environmental perspective  
*M. De Monte and E. Padoano – University of Trieste (Italy)*
- Product Lifecycle Management in Education: Integration of product optimization with Manufacturability  
*M. M. Tomovic – Purdur University, West Lafayette, IN (USA)*

3 :10 – 3 :30

Conclusions, perspectives and Coffee