



**Call for Participation/Presentation**

## **PDE 2005**

### **The 7th NASA-ESA Workshop on Product Data Exchange (PDE)**

#### ***The Workshop for Open Product & System Lifecycle Management (PLM/SLM)***

*Also known in previous years as  
“The Aerospace Product Data Exchange (APDE) Workshop”  
and “The STEP for Aerospace Workshop”*

#### **2005 Theme: Complex System Interoperability and Knowledge Management**

April 19-22, 2005  
Atlanta, Georgia USA

Hosted by the PLM Center of Excellence at Georgia Tech  
<http://www.marc.gatech.edu/events/pde2005/>

You are invited to participate in the 7th Product Data Exchange (PDE) Workshop, which is jointly organized by the National Aeronautics and Space Administration (NASA), the European Space Agency (ESA), an international advisory panel, and the local host.

This year the workshop is hosted by the PLM Center of Excellence at the Georgia Institute of Technology in Atlanta.

This event is preceded by six highly successful annual workshops. Over the years the workshop name has evolved to reflect enhanced community understanding and interests regarding problem scope and promising solutions. Yet the core theme has remained the same: *Open standards for representing and managing information and knowledge for enhanced model interoperability throughout the product/system lifecycle.*

The program will be similar to previous PDE workshops: an opening evening reception followed by three days of presentations, plenary keynotes and discussions, networking opportunities, and “birds of a feather” meetings.

## Workshop Objectives

- To provide an international forum for the presentation and discussion of methods and technology for the reliable capture, management, exchange, and long term archival of product/system information and knowledge, especially through the use of open standards.
- To share experience obtained in the development, implementation, deployment and operational use of such standards.
- To identify or showcase PLM/SLM interoperability standards that can be used in complex system applications, including those originally been developed for other industries.
- To identify gaps where new standards need to be developed or existing ones need to be extended, and to bring together the people to foster such initiatives.
- To encourage development and growth of open model-based methods for PLM/SLM.

## Workshop Topics for 2005

- Open PLM/SLM standards addressing needs such as:
  - Collaboration between industrial and/or institutional partners
  - Realization and improvement of concurrent engineering and "e-engineering" scenarios
  - Multi-disciplinary / multi-physics design and analysis/simulation
- Advances in robust industrial CAD, CAE, CAM and PLM/PDM interoperability based on open standards such as STEP (ISO 10303)
- Dedicated sessions on PLM/SLM standards for these domains:
  - Electronics/mechatronics, with a special focus on STEP AP210 and AP212
  - Systems engineering, with a special focus on STEP AP233 and SysML (the UML Profile for systems engineering)
- Linking design, simulation, and manufacturing
- Linking engineering CAD, CAE/simulation (FEA, CFD, discrete event, ...), and testing
- Success stories and issues in developing, implementing and/or using PLM/SLM open standards
- Reliable long term archival and usage of information for complex systems (aerospace, automotive, facilities/buildings, electronics/microsystems, shipbuilding, medical/bio, homeland security, and so on)
- Methods blending two or more information/knowledge technologies for PLM/SLM purposes (e.g., "collective product models" combining STEP EXPRESS, XML, UML/MDA, and OWL)
- Joining open standards and the open source software (OSS) development model to enhance PLM/SLM implementation (e.g., combining Eclipse with STEP)
- Web-based methods and infrastructure for PLM/SLM
- Open solutions sustainability, including total cost of usage/ownership, stakeholder win-win mechanisms (users, open source developers, commercial vendors), and balancing openness vs. business viability and competitive advantage

## Timetable

March 4, 2005	Primary <sup>1</sup> deadline for abstract submission ( <i>submit via below website</i> )
March 11, 2005	Notification to authors
March 19, 2005	Deadline for early registration discount and hotel block reservations
April 15, 2005	Deadline for presentation submission
April 19-22, 2005	Workshop (begins with opening reception on April 19 evening)

## Further Information

An abstract submission form and further information on keynotes, presentations, special sessions, venue, registration, and travel will be made available on the following website:

<http://www.marc.gatech.edu/events/pde2005/>

Links to previous workshops are also provided.

## Organizing Committee

### ESA and NASA Organizers

- Hans-Peter de Koning    ESA General Chair  
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- Georg Siebes    Communications Chair  
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- Steve Waterbury    NASA General Chair  
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### Local Organizers

- Leon McGinnis  
*ISyE/PLM*
- Chris Paredis  
*ME/PLM*
- Russell Peak  
*MARC/PLM*
- Donna Rogers  
*MARC*

### Georgia Institute of Technology (GIT)

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<sup>1</sup> Abstracts submitted after this date will be considered only if time and space permits.