

Call for papers special session on “Asset Information Management”

International Conference on Product Lifecycle Management
University of Bath
July 6th-8th 2009

Session organisers:

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This special session aims to bring together leading **researchers and industry practitioners** to discuss issues related to the management of information throughout the Middle-of-Life (MOL) and End-of-Life (EOL) phases of an asset. This is including information from distributors, maintenance/service engineers, customers, or manufacturers on asset status, asset usage, conditions of retirement, and disposal of assets. More importantly, this special session is part of an effort to create a community where these issues, ideas and solutions are shared.

Asset Lifecycle Management has been gathering importance in the past few years as manufacturers have started moving away from selling “products” to selling “services” or “solutions”, where management of sold assets throughout their lifecycle is part of their sales offering. Consequently, it becomes imperative to these manufacturers to gather useful information about their assets throughout their usage life for efficient management and control of decisions related to their procurement, use, maintenance, and disposal.

However, present day computer-based support systems for product development and product lifecycle management often consider issues related to cradle-to-grave asset management insufficiently. Product Lifecycle Management systems available today in the industry are mostly designed to manage information necessary for collaborative product design and manufacturing. Some of these systems lately have started considering information requirements for service and support. However, this is geared more towards ensuring the availability of static information such as disassembly diagrams, repair manuals etc. Management of dynamic information associated with the use and maintenance of assets throughout the lifecycle is still an open research issue.

You are cordially invited to participate in the special session on Asset Information Management to be conducted in conjunction with the International Conference on PLM.

Topics of interest

We solicit papers encompassing topics such as:

1. Asset information management infrastructure and models
 - a. Drivers for asset information management (legislative, business, etc.)
 - b. Methods, guidelines and tools for asset information management
 - c. Ontologies for through-life asset information management
 - d. Tools for asset tracking and tracing
 - e. Agent-based solutions for asset management
2. Technologies for asset information management

- a. Asset data acquisition technologies (RFID, Barcode, etc.)
 - b. Information management technologies
 - c. Information architectures
 - d. Standards in Information management
 - e. Strategies for asset information management
3. Improving asset management decisions through effective data capture
 - a. Asset procurement decisions
 - b. Maintenance: strategies, scheduling, and tactical decisions
 - c. Real-time control of asset use
 - d. Asset performance measurement and improvement
 - e. Asset disposal and value recovery
 4. Quantifying the value of asset information
 - a. The role of asset information in decision making
 - b. Tools and methodologies for quantifying information value
 - c. Methods, guidelines and tools for assessing asset information management systems
 5. Closed-loop Information flow
 - a. The role of asset information feedback to Beginning of Life phase
 - b. Framework, methods, guidelines and tools to support information feedback
 6. Industrial cases studies in asset information management

We welcome contributions from building and construction, mechanical engineering, electrical engineering, mechatronics, automotive, aerospace and ship building, and process industry, as well as from other domains.

Deadlines are as follow:

February 2, 2009	Academic paper submission (full paper due)
April 15, 2009	Notification of acceptance for academic papers
May 15, 2009	Final manuscript due

Submission Instructions

Authors are invited to submit abstracts to register interest in the Conference Special Session (this is not mandatory but is preferred), then original papers of up to 10 pages in length for review, by emailing to the corresponding session organiser (mzo21@cam.ac.uk). Each paper will be reviewed by three members of the international Programme Committee, and those that are accepted will be published, in the Conference proceedings.