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Preventive Maintenance Strategy has positive results for Iggesund Paperboard (Workington) Ltd

IMechE West Cumbria enjoyed an excellent visit to the Workington site of Iggesund Paperboard

The theme of the evening was **Preventive Maintenance**

Damian McSweeney, Engineering Director / Deputy Managing Director presented an overview of the Holmen Group and the history of the Mill, its major investments, manufacturing processes, end use areas and customer locations throughout the world

The asset register at Iggesund has 28,000 objects, (and is still growing) with 15,000 identified preventive actions (and rising!).

The process equipment is wide ranging and includes

- Heavy Mechanical Handling/Processing
- Conveyors
- Rolls and Cylinders
- Cranes
- Pumps, Valves Pipework, Tanks
- Up to 11kV electrical supplies
- High degree of Automation
- CHP on site (operated by E-On)

Jukka Tuomela Maintenance Development Engineer of Metso Paper (partner in Iggesund's maintenance cooperation agreement) gave an account of the preventive maintenance strategy

A vital solid foundation

- **Detailed functional hierarchy with criticalities**
- **Comprehensive Preventive and Predictive Maintenance Plans**

- **Implementation of Maintenance Best Practices**
- **Competency Management Program**
- **Efficient information systems setup and implementation**
- **Life-cycle management program**
- **Professional Supply Management setup**

Criticality analysis, using Metso's tool, taking into account probability of failure based on production loss, maintenance costs, and safety implications. Identifying the most important aspects of the process, **preventive maintenance plans** for critical equipment and medium critical and basic maintenance plans for non – critical equipment

Shutdown performance monitoring and improvement

Machine and process audits to identify improvement opportunities

Typical results: Maintenance downtime improvement of 35 – 40%, reduction in maintenance cost of 10 – 12%

The evening was rounded off by a tour of the Mill and the presentation of the ubiquitous "Pit Tankie" keepsake!

IMechE West Cumbria extend their thanks to all those who hosted and attended the event

Lecture Organiser

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