

# MATERIALS TECHNOLOGY WORKSHOP



## New Developments in Risk Based Inspection & Corrosion Technology

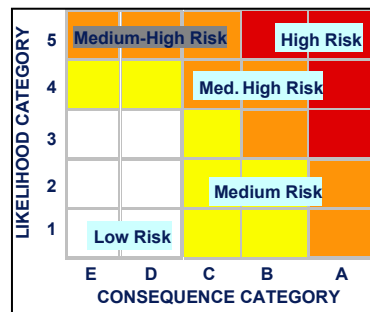


March 16, 2009  
Al Manshar Rotana Hotel  
Fahaheel, Kuwait

Workshop organized by:  
**Bayer Technology Services**  
In conjunction with:  
**Al Thurya Co.**

INNOVATION ENGINEERING OPTIMIZATION

**Risk-Based Inspection (RBI)** has become an integral part of the plant's work process, as engineers and inspectors compare risk-based intervals against fixed and condition-based frequencies. Managers are starting to understand the potential benefits of risk management, but most are only scratching the surface of the business benefits RBI can provide. At the same time, regulators are interested in the technical basis for the calculations as well as the background and quality of the work that is performed. Can the continuing development of RBI technology, including the new API RP 581, facilitate cooperation in creating uniform regulatory standards and perhaps lead the way to creating a global standard? Could RBI lead the way to creating Best Practices that assure safety and drive business decisions in non-regulated as well as regulated areas?



*The workshop will focus on the emergence of RBI as an international standard for risk analysis, inspection planning, and proactive risk management practices. There will also be hands-on training on the inspection management software solution BayKBI-S™ which integrates with commercially available RBI software based on the new edition of API RP 581 RBI technology. New developments will be emphasized. New approaches and tools will be presented. This workshop is useful for all companies using or considering RBI / Risk Based Maintenance.*

### Equipment Reliability - Corrosion and Quality Assurance Concerns:

The usability, lifetime and availability of many plants are greatly determined by the resistance to corrosion of the materials used. In addition to the selection of materials for all individual components, the design, layout and manufacturing, as well as numerous other influencing variables exist which are often unknown in practice. Slight modifications to the chemical composition of raw materials or additives, minimal deviations from optimum process parameters or minor external influences can trigger active corrosion processes, resulting in serious changes with regard to product purity or the availability of equipment.



*The workshop will outline new and modern corrosion prediction technologies, online corrosion monitoring, and quality assurance methods applied to capital investment. It will be a first step in improving asset life while reducing plant maintenance costs.*



### Agenda :

Time	Topic
<b>Morning</b>	<b>Risk Based Inspection / Maintenance - New Approaches and Developments</b>
9:00-9:15	General Introduction
9:15-9:30	Operational Excellence in Mechanical Integrity (BayOpX™)
9:30-10:00	Risk Based Inspection - Methodology and Technology for Operational and Maintenance Excellence
10:00-10:15	Break
10:15-11:15	RBI Case Studies and Accomplishments for Safety and Business Success
11:15-12:00	BayKBI-S - Software for Management of Inspection and Maintenance Matters
12:00 -13:00	Lunch in the Al Manshar Rotana Hotel (courtesy of the workshop sponsors)
<b>Afternoon</b>	<b>Equipment Reliability / Corrosion and QA Concerns - Approaches and New Technologies</b>
13:00-13:30	Quality Assurance for Capital Projects - Contributions to Life Cycle Cost Approach of a Unit
13:30-14:30	Corrosion - An Overview and Case Histories
14:30-15:00	bayPRINCE Xperience™ - Prediction of Corrosion with Neuronal Network Technology
15:00-15:15	Break
15:15-15:45	baycorroxxion™ - Corrosion Monitoring Technology for In-situ Surveillance of Critical Fixed Equipment
15:45-16:30	Extended Software Demos (bayPRINCE Xperience™ and BayKBI-S™)
16:30-16:45	Wrap Up

### WORKSHOP REGISTRATION

**Registration:** There will be no registrations fees for this workshop. Participation is on a first-come, first-served basis. Seating is limited so please reply with your contact details without delay. Note that all participants will be presented with a resource book containing useful "White Papers", plant survey examples, and other useful tools. Please register early to be sure to receive these important planning tools.

Name:  
Title:  
Company:  
City, State/Province:  
Postal Code:  
Phone:  
Mobile:  
Email address:

Please return completed form in an email or fax to:

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