2nd

Asset Life Extension

Extending the life-cycle and maximizing performance of aging assets

February 4 & 5, 2015, Toronto

Speakers & Participating Organizations

Course Leader
Ilmar Simanovskis,
Town of Aurora

Course Leader
R. Paul Klein,
Predictive Systems Engineering Ltd.

Alexander Bakulev,
Toronto Hydro

Don M. Barry,
IBM Canada Limited

Sarath Liyanage,
Ministry of Transportation - Ontario

Chowdhury Masud,
Praxair Canada Inc.

Dragoslav Neskovic,
LCBO

Jet Singh,
Patheon Inc.

Bruce Smith,
BRS Maintenance Solutions

Workshop Included:

Using New Technology to Extend the Life of Aging Assets

who should attend

Maintenance Managers & Coordinators, Plant Managers, Engineers, Planners & Schedulers, Reliability Engineers, Asset, Equipment & Facilities Managers, Maintenance & Technical Operators

course highlights

- Developing an effective maintenance plan to extend asset life
- Extending asset life by overcoming common barriers to implementing a reliability improvement strategy
- Establishing and managing asset maintenance systems
- Implementing advanced asset integrity management systems
- Implementing life cycle costing for asset management
- Utilizing key performance indicators to evaluate integrity planning and inspections
- Identifying the specific knowledge and skills required to maintain your equipment
- Applying appropriate technologies to measure asset operating characteristics
- Understanding how a risk based approach results in using inspection resources more cost effectively

FACULTY

COURSE LEADERS

ILMAR SIMANOVSKIS
Ilmar Simanovskis is Director of Infrastructure and Environmental Services for the **Town of Aurora**. He has been in the construction and service delivery sector for 24 years. His experience has included all three aspects of construction: constructor, consulting engineer, and his current municipal role.

R. PAUL KLEIN
R. Paul Klein is the CEO of **Predictive Systems Engineering Ltd**. His area of focus is cost-effective predictive maintenance management practices.

CO-LECTURERS

ALEXANDER BAKULEV
Alexander Bakulev is Manager, Power System Event Management & Business Optimization at **Toronto Hydro**. He led the development a long-term asset management plan as well as formulation and implementation of leading-edge risk-based asset evaluation models to incorporate life-cycle calculations into the planning function.

DON M. BARRY
Donald Barry is an Associate Partner at **IBM Canada Limited**. He leads the asset management solutions and professional services practice. He is experienced in creating distribution process improvements and developing inventory reduction strategies with increased service levels.

SARATH LIYANAGE
Sarath Liyanage is the Team Lead of Information Management in the Investment Strategies Branch of the **Ministry of Transportation** - Ontario. He has more than 30 years of experience in engineering, project management and infrastructure planning.

CHOWDHURY MASUD
Chowdhury Masud is the Integrity Support Manager at the **Praxair Canada Inc**. He has over 25 years of experience in multiple facets of asset integrity management, quality assurance program for aging facilities.

DRAGOSLAV NESKOVIC
Dragoslav Neskovic is Manager, Logistics Engineering & Maintenance at the **LCBO**.

JET SINGH
Jet Singh is Engineering and Maintenance Manager at **Patheon Inc**. He works closely with his internal Production, Quality and Compliance teams to ensure all required regulatory production and quality requirements are satisfied.

BRUCE SMITH
Bruce Smith is a Consultant at **BRS Maintenance Solutions**. He is an independent manufacturing maintenance consultant with extensive experience managing maintenance, facilities and engineering departments.

COURSE PROGRAM

CREATING AN ASSET MANAGEMENT CULTURE: TRAINING AND COMMUNICATION

Institutionalizing asset management and establishing an asset management culture through clear, consistent policy, strategy and internal communications are critical components of successful asset extension practices. This session will examine how to foster an asset management culture that will create a sustainable environment for reliability initiatives and effective asset life extension practices.

- Integrating asset management into strategic planning activities
- Providing leadership that builds a culture favorable to effective as set management practices
- Embedding asset management into ongoing capital, operations and maintenance activities
- Identifying the specific knowledge and skills required to maintain your equipment

APPLYING PHYSICS OF FAILURES TO ENHANCE ASSET RELIABILITY

Far too often manufacturers struggle with equipment that doesn't perform as expected leading the maintenance department to be under pressure to fix frequent breakdowns, and to explain why machines keep breaking. This presentation will explore how the OEM engineering design can only go so far in creating a reliable machine and investigate the 5 Reliability Killers. By understanding the causes of equipment failure we can identify how to create reliability and extend asset life.

- Defining equipment reliability
- Understanding a machine is the sum of its parts
- Importance of design vs application
- Operating stress and its effect on parts
- Uncertainty caused by handling the equipment
- Importance of standardized SOPs

webcast

While nothing compares to the experience of attending the live event, with its enhanced networking opportunities and direct contact with leading experts, for those unable to attend in person FP provides a convenient option to still benefit from this unsurpassed learning experience:

FP's live interactive Webcasts allow you to actively participate in events, from downloading all material distributed by lecturers to asking speakers questions.

COURSE PROGRAM

KEY ELEMENTS TO ACHIEVING AND SUSTAINING OPTIMAL ASSET PERFORMANCE

This discussion will explore best practices and key elements to achieving and sustaining optimal asset performance.

- Ensuring proper design
- Sound maintenance practices
- Appropriate funding
- KPIs and corporate performance measure targets
- Cross asset optimization
- Demand management
- Long term needs analysis

METHODS FOR PREDICTING ASSET LIFE BEFORE REPLACEMENT OR FAILURE

Predictive asset management techniques help to run their assets at peak performance and accurately predict events that could cause stoppages. This can be achieved with older assets using data integration, automation, analysis and predictive analytics to boost uptime, performance and productivity while lowering maintenance costs and the risk of revenue loss. This session will look at practices for predicting asset life before replacement or failure.

- Applying appropriate technologies to measure asset operating characteristics
- Analyzing data against established characteristics and trends of like assets
- Setting up critical measurements and taking corrective measures
- Use of predictive maintenance condition monitoring of older assets

RISK BASED PREDICTION TO PROLONG ASSET LIFE

In order to better predict asset life before an asset needs to be replaced or, indeed fails, many companies have introduced initiatives to maintain integrity and improve reliability based on clear and well-understood predictive factors.

- Using the information to identify the type and rate of damage that may potentially be present
- Red flagging equipment or locations where failure would give rise to danger
- Ensuring compliance with current safety regulations
- Methods used to extend the life of assets

PRINCIPLES & IMPLEMENTATION OF LCC FOR ASSET MANAGEMENT

When implemented correctly, accurate life cycle costing initiatives will improve accountability, maximize cost savings and minimize risk. This session will outline ways to ensure proper implementation of LCC and establishment of sound LCC principles that will set the process on solid ground, with a focus on a simple, pragmatic and practical approach to life cycle costing.

- Building economics standards for LCC
- Costs to be considered
- Data sources: project specific and public predictions
- How to assess the accuracy of your LCC
- What uncertainties will always remain and how to mitigate them?
- Making unavoidable assumptions
- Risks in establishing LCC

ESTABLISHING A HOLISTIC ASSET RISK MANAGEMENT PROCESS

Risk management is a key component of overall asset management and asset life extension practices. Asset management plans must not only manage the operation and maintenance of an organization's assets but also manage the risks associated with the ownership and use of the assets. This session will examine requirements for establishing a holistic asset risk management process.

- Assessment & identification; management & controls.
- Risk assessment: risk identification, risk analysis, risk evaluation
- Minimizing risk over the life of an asset
- Integrated risk assessment combining qualitative and quantitative principles
- Conducting fitness for service analysis

EVALUATING INTEGRITY PLANNING & INSPECTION ACTIVITIES: KEY KPIS

The selection key performance indicators and alignment with integrity planning and inspection activities will aide in prolonging asset life and are essential to support the overall organizational strategy and objectives.

- Using KPIs to develop an effective proactive asset management system
- Integrity planning and inspection strategies that contribute to a safe, productive and efficient operating environment
- Importance of lagging versus leading indicators
- Implementation of inspection, testing and monitoring schemes to maintain mechanical integrity

WORKSHOP

USING NEW TECHNOLOGY TO EXTEND THE LIFE OF AGING ASSETS

Many businesses today are looking to ways to extend the operational life of older facilities and equipment. With Improved equipment reliability a critical objective for managing the integrity of aging assets, new technologies can go a long way toward helping to meet this objective. This session will look at using new technology to extend the life of ageing assets, examining how to implement the latest asset integrity management technology to track, monitor and report on the condition of assets in a timely way.

- Implementing advanced asset integrity management systems
- Maintaining operational excellence by understanding, analyzing and using the most effective maintenance technology in support
- Asset life extension through effective platform management and maintenance systems
- Maximize the use of your resources through utilizing new technology to simplify existing processes and automate processes

PROCEEDINGS

The "Proceedings" is your Web repository of learning resources for this event. It includes:

- the recording of the lectures at the forthcoming event itself, including documentation, slides and audio-visual;
- 25 or more carefully selected additional lectures (below), which are intended as a recommended enrichment of the course content, with many additional topics covered.

The price of the Proceedings (one user licence) is $299 if you are attending in person or by Webcast; or $799 otherwise.

Implementing an Efficient Maintenance System at Tembec
Charles Knight
Tembec

Effective Asset Maintenance: The Journey From Reactive to Proactive
Kim Hunt, CMRP, CLS
Domtar Inc., Espanola

Using Root Cause Analysis (RCA) to Improve Reliability
Randy Grant
Cameco Corporation

Linking Maintenance Strategy with Operations
Bjarni Ellert Isleifsson
PwC Canada

Best Practices for Scheduling Maintenance
Jean Charbonneau
CIM Maintenance

Evaluating Your Asset Management Practices Based on IIMM
Ilmar Simanovskis
Town of Aurora

Maximizing the Effectiveness of Technology in Reliability-Centred Maintenance
T. Richard Beer
TRO Maintenance Solution

Managing People Issues Within the Maintenance Group
Cliff Williams
ERCO Worldwide

Effective Planning and Scheduling in a Lean Maintenance Strategy
Jim Charboneau
VENTYX

Preventive Maintenance: Balancing Reliability and Availability
Christopher Sooley
IPEX Inc.

Effective Metallurgical Failure Analysis
Shane Turcott
Steel Image Inc.

Total Productive Maintenance: Refocusing Maintenance as a Business Imperative
Daniel A. Lawson P. Eng,
Blount Canada Ltd.

Maximizing the Effectiveness of a CMMS
T. Richard Beer
TRO Maintenance Solution

New and Emerging Technologies for Asset Maintenance and Management
Don Fitzgerald
Ivara Corporation

Reducing Maintenance Costs Through Energy Efficiency at the LCBO
Michael Bowman
Liquor Control Board of Ontario

Improving Training of Maintenance Managers for Competitive Advantage at Purolator
Scott Anderson
Purolator Inc.

Developing a Lean Maintenance Strategy at Give and Go
Jerry Dover
Give and Go Prepared Foods Corporation

The Impact of Maintenance on the Overall Business Process at Cameco
Randy Grant
Cameco Corporation

CBM Data Interpretation: Living RCM
Murray Wiseman
OMDEC Inc.

Preventive VS. Emergency Maintenance
Liane Harris
ECS2 Group Machine Healthcare

Best in Class Maintenance – Measuring Your performance Against the Industry Leaders
Sean Licata
Viziya Corporation

Mining Industry Maintenance Case Study
Christian Quirion
Agnico-Eagle Mines Limited Division Laronde

Developing an Asset Management Plan
Blaine Parkin
City of Barrie

Maintenance With an Eye to Energy Efficiency
Allan Kelly
St. Michael's Hospital

Life Cycle Planning at OPG Hydro
Allan Reid
Ontario Power Generation Inc.

Registration: To reserve your place, call Federated Press toll-free at 1-800-363-0722. In Toronto, call (416) 665-6868 or fax to (416) 665-7733. Then mail your payment along with the registration form. Places are limited. Your reservation will be confirmed before the course.

Location: Courtyard by Marriott Downtown Toronto, 475 Yonge Street, Toronto, ON, M4Y 1X7

Conditions: Registration covers attendance for one person, the supplementary course material as described in this document, lunch on both days, morning coffee on both days and refreshments during all breaks. The proceedings of the course will be captured on audio or video.

Time: This course is a two-day event. Registration begins at 8:00 a.m. The morning sessions start promptly at 9:00. The second day ends at 5:00 p.m.

Cancellation: Please note that non-attendance at the course does not entitle the registrant to a refund. In the event that a registrant becomes unable to attend following the deadline for cancellation, a substitute attendee may be delegated. Please notify Federated Press of any changes as soon as possible. Federated Press assumes no liability for changes in program content or speakers. A full refund of the attendance fee less 15% administration fee will be provided upon cancellation in writing received prior to January 21, 2015. No refunds will be issued after this date.

Discounts: Federated Press has special team discounts. Groups of 3 or more from the same organization receive 15%. For larger groups please call.

Payment must be received prior to January 28, 2015

Phone: 1-800-363-0722 Toronto: (416) 665-6868 Fax: (416) 665-7733

TO REGISTER FOR **2ND ASSET LIFE EXTENSION**

Name _____

Title _____ Department _____

Approving Manager Name _____

Approving Manager Title _____

Organization _____

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Telephone _____ Fax _____ e-mail _____

Please bill my credit card: ❒AMEX ❒VISA ❒Mastercard

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Payment enclosed: ❒ Please invoice. PO Number: _____

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REGISTRATION COSTS

NUMBER OF PARTICIPANTS: [ ]

COURSE: $1975

WEBCAST: $1575*

* One user licence

COURSE + PROCEEDINGS:

$1975 + $299 = $2274

WEBCAST + PROCEEDINGS: $1874

PROCEEDINGS: $799*

* One user licence

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Proceedings will be available 60 days after the course takes place

Enclose your cheque payable to Federated Press in the amount of:

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