



Canadian Leaders In Asset Management

www.pemac.org

PEMAC Asset Management Association of Canada

A professional association enabling excellence in maintenance, reliability, and asset management through collaboration, applied learning, & leadership.



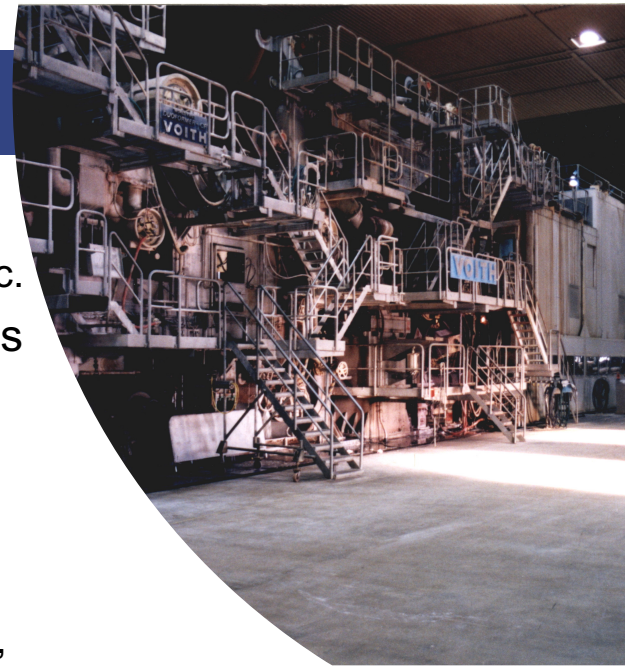
Learning from COVID-19

Practical ways to integrate the lessons learned

Susan Lubell & Alan Johnson, May 7, 2020

COVID-19 Impacts

- Many organizations forced to close or modify production.
 - Restaurants, personal services, re-tooling for new products etc.
- Many others are still operating and have made adjustments to their practices to maintain health and safety of their employees and customers.
 - Grocery stores, pharmacies, food processing, etc.
 - Transportation logistics, courier package delivery, manufacturing – pharmaceutical and consumer products, mining, oil & gas production, refining, municipal water/wastewater, electric power generation and transmission, internet services and many others.
- Many organizations in this second group are Maintenance Intensive industries.
 - Maintenance needs to be carried out to remain in operation.
 - This is where many of PEMAC's members reside.



Previous session have talked about:

- Session 1
 - Helping people deal with the stress.
- Session 2
 - What one organization was doing to ensure the right work was completed with reduced personnel
- Session 3
 - Some suggestions for value-added analytical work by personnel who may not be able to do their normal activities while they work from home.
- Session 4 – This week
 - Exchange some experiences that people have had in dealing with changes to the work environment.
- Session 5 – next week..... Asset Management implications:
How will your organization emerge from its post pandemic cocoon?



Discussion Approach

- What changes did you make in your organization?
- What are some of your learnings?
 - Both positive and not so good.
- What has worked and what didn't work?
 - Things you will continue to do!
 - Things you may never do again!
- How did you implement changes at your work site?



Three Key Areas of Discussion

- People
- Processes and Practices
- Tools & Technology



People

- Maintaining the safety of workers while adjusting to new physical distancing and PPE requirements
- Opportunities for learning, education and training of staff



Processes and Practices

- Changes necessary to the way activities managed.
- Changes the way work carried out.
- Opportunity to complete analysis of effectiveness of maintenance programs and asset criticality
- Pulled out disaster plans and had the first opportunity to put them in place



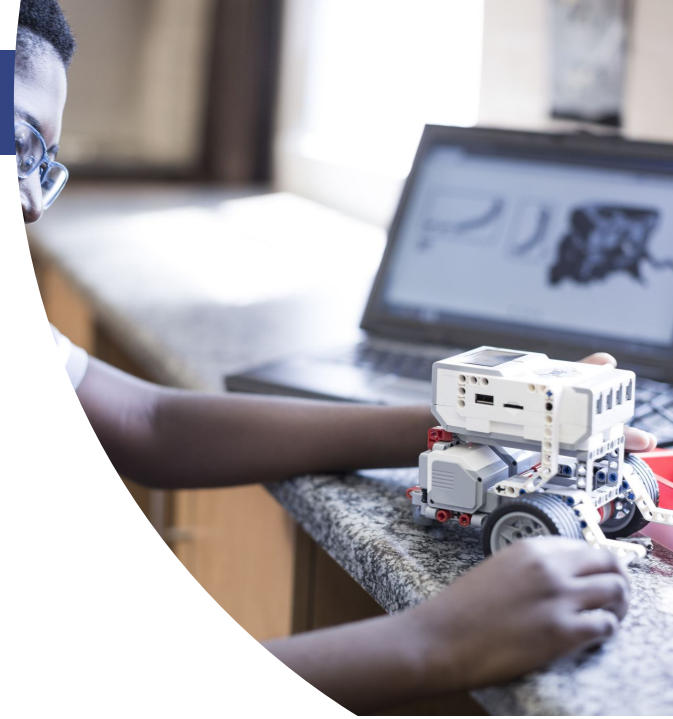
Tools & Technology

- Have the tools available supported activities?
- Forcing organizations to rely on their PdM for Asset Health
- Continued need for time-based maintenance where it is required by the failure modes



Other Learnings

- What were some of your other learnings?
 - People
 - Processes & Practices
 - Tools (systems, networks, etc.)
- How were you able to accommodate them at your worksite?
 - What worked and what didn't work?



Latest in Maintenance Philosophies

'Percussive maintenance' is the term for hitting a device until it starts working again.



Susan Lubell Biography

- P.Eng, MBA, MMP, CAMA
- Principal Consultant Steppe Consulting Inc.
- 25+ years in Canadian oil & gas (conventional onshore and oilsands) and mining producer companies
- Co-author: Root Cause Analysis Made Simple – Driving Bottom Line Performance by Preventing One Failure at a Time
- Instructor: PEMAC's MMP and AMP certification programs
- Industry Roles:
 - President PEMAC Canada
 - Board of Directors Chair WPiAM
 - Member and Past-Secretary GFMAM



GFMAM
Global Forum on Maintenance
& Asset Management



WPiAM
World Partners in Asset Management



Alan (Al) Johnson Biography

- Retired - Consultant, Physical Asset Management
- 45+ years of experience in the maintenance field, initially as a Tradesman and Supervisor, and for the past 25 years as an asset/maintenance management consultant. His clients included: Upstream, Midstream and Downstream Oil & Gas operations, Forest Products, Pulp and Paper operations, Fertilizer production, Mining, and a number of other process industries.
- Primary areas of focus were; assessment of Asset Maintenance Work Management Program effectiveness, CMMS/EAM tool utilization, and aiding clients in the development and implementation of improvement strategies and action plans in these areas.
- Instructor in the PEMAC Maintenance Management Professional (MMP) certification program from 2004 thru to 2019, when he retired from instruction
- Lifetime member of PEMAC and winner of the Sergio Guy Award
- Currently active with PEMAC as the Curator of the Body of Knowledge (BoK) Shared Learning Library.