

 I^3 Inspire, Innovate, Improve

CONFERENCE PROGRAM
SEPTEMBER 21 TO 24

Maintenance, Reliability and Asset Management







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Welcome to MainTrain 2015

Message from PEMAC President Rob Lash

On behalf of the PEMAC Board of Directors and the PEMAC Organization, I would like to extend a warm welcome to the 2015 MainTrain Conference here in the beautiful city of Vancouver. We hope that you enjoy not only the conference, with its extensive technical programs and exhibits, but also the charm and hospitality that this wonderful city has to offer. This conference addresses various areas of Asset Management through both presenters and attendee's involvement in keeping with this year's theme to "Inspire, Innovate, and Improve".

This year marks PEMAC's 25th Anniversary and we should all recognize and celebrate this noteworthy milestone at this year's conference. Our new Strategic Plan will help lay the foundation for the next 25 years so all are encouraged to get even more involved with PEMAC.



We hope you enjoy the content of the conference and have ample opportunity to network with international and national colleagues. Thank you to all of the presenters and attendees for your contributions at "our" conference, and to our colleagues on the MainTrain organizing committee. I also would like to thank our sponsors and exhibitor's that have helped to make this conference possible.

Robert Lash, President, PEMAC

About PEMAC

Vision

PEMAC is a national not for profit association providing global leadership, education and certification in asset management practices.

Mission

PEMAC's mission is to improve its member's professionalism, safety, performance, and outside recognition, by providing specialized education and certification, undertaking research, providing forums for the exchange of information and acting as a public voice for its members and the profession.

PEMAC's membership is comprised of over 1200 maintenance, reliability and asset management practitioners.

For more information about PEMAC, visit www.pemac.org. Be sure to follow us on LinkedIn, Facebook and Twitter @PEMACexec for the latest updates as well.



Proud member of:



Message from PEMAC Executive Director Cindy Snedden

Welcome to beautiful Richmond, BC and to MainTrain 2015! Whether you are a volunteer, delegate, speaker, sponsor, exhibitor, thank you for attending and supporting this event. MainTrain is offered by and for practitioners and serves the ongoing development of PEMAC, your Canadian non-profit professional association in maintenance, reliability and asset management.

It is a great privilege to work daily with the members and volunteers of PEMAC - people who understand the very tangible contribution that proactive maintenance asset management makes to society, and who offer their time and expertise to contribute to the development of this profession. The conference committee is a prime example. I would like to extend my sincere congratulations to the Chair and members of the MainTrain 2015 committee as well as the events coordinator who served them. The committee



met biweekly over the course of the year to plan the conference with a focus on bringing a mix of top quality workshops and presentations to help you "Inspire, Innovate and Improve" the asset management performance of your organization. In spite of challenging times, their efforts have attracted an excellent cohort of participants from around the world and they have brought MainTrain – yet again – to a new level. In addition, hosting MainTrain in the Vancouver area for the first time isn't something we could have done without the presence, support and encouragement of the Metro Vancouver Chapter. We appreciate the support of that group of champions as well.

We are grateful to everyone who submitted to the Call for Papers. With over 75 submissions, we could not select them all. And for those who were selected, we admire the fact that you have developed (or are developing) the skill and confidence to give a presentation. Thank you for being willing to share what you have learned. And finally, thank you to the sponsors and exhibitors who contribute to the conference in many ways. These are the solutions-providers. Don't miss out on finding out what each has to offer your business.

We really hope that the week meets and exceeds your networking and learning goals. And also that you have some time to explore Vancouver while you are in the area.

Sincerely,

Cindy Snedden, P.Eng Executive Director, **PEMAC**

Phone: 1 (877) 523-7255 Direct: 1 (250) 826-6491



Message from the conference chair, **Sridhar Ramakrishnan**, P.Eng., MMP

On behalf of PEMAC and the MainTrain conference committee, I welcome you to MainTrain 2015 in the beautiful city of Vancouver, British Columbia! The theme for this year's conference is `I³ Inspire Innovate Improve'. We have designed the four days of this conference around this theme. We have a good mix of keynotes, sessions, workshops and activities to inspire you to innovate, to improve, and thereby put you on the path of continuous improvement. The ongoing economic challenges have only amplified the importance of the conference theme – to survive through these times and to come out as winners. Businesses and individuals alike, have to find new ways to achieve more with less, to improve performance at lower cost without enhancing risk.



You will notice that all three words in the theme begin with the letter `I'. I challenge you to take back to your work place ideas, successes and opportunities to innovate, to improve, and thereby inspire those around you to replicate. I am reminded of Wayne Gretzky's quote "I skate to where the puck is going to be, not where it has been". This is the time to apply this lesson. This is the place to begin your journey.

I would like to thank everyone for taking time off your busy schedules to participate in this conference. I wish you all good luck and a safe and enjoyable stay in Vancouver.

Sridhar Ramakrishnan, P.Eng., MMP



MainTrain 2016 is coming to Toronto!

We invite you to join us September 19 to 22, 2016 in vibrant Toronto, Ontario where everyone is welcome.

PEMAC is thrilled to once again host its annual conference in this lively city in central Canada that features not only diversity through culture but also through a wide range of industry.

More information will be available soon about MainTrain 2016. Stay tuned and mark your calendars! For more information visit www.maintrain.ca, or contact Nicolle Guillen, PEMAC's event planner at events@pemac.org or 1-877-525-7255 ext. 4. Follow us @MainTrain for all the latest information.



MainTrain 2016 | Toronto, Ontario www.MainTrain.com | September 19 to 22, 2016



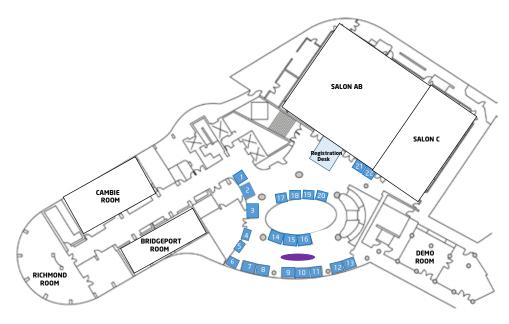
Conference Floor Plan



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CINDE is Canada's non-profit, member-based, technical society dedicated to the people and companies engaged in non-destructive evaluation (NDE), non-destructive testing (NDT), and inspection. CINDE offers world-class NDT training, is a full-service government approved certification examination centre, and offers comprehensive member benefits. For more information, please visit: **www.cinde.ca** and **events.cinde.ca**.



The International Council for Machinery Lubrication (ICML) is a NFP organization founded to facilitate growth and development of machinery lubrication as a technical field of endeavor. ICML's Machine Lubrication Technician (MLT), Machine Lubricant Analyst (MLA) and Laboratory Lubricant Analyst (LLA), offered global since 2001, are internationally recognized and adopted by ISO as 18436-4 & 18436-5, respectively. For more information visit **www.lubecouncil.org**.



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Maintenance strategy review Assessments and benchmarking Reliability engineering Application engineering Life cycle cost management Asset performance review Risk analysis Key performance indicators Work planning and scheduling Inventory management Bad Actor management Balanced scorecard

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CONFERENCE TOURS

GCT Deltaport Facility Tour



GCT Deltaport, Canada's flagship container terminal, located in Port Metro Vancouver, is an 85-hectare (210-acre) facility with three contiguous berths totaling 1,100 metres (3,609 feet). The terminal is designed to handle the largest transpacific container vessels in service and features dual-hoist gantry cranes—the first in the Americas—in its fleet of ten high-speed, super post-Panamax cranes. The facility employs state-of-the-art computer systems and has an on-dock intermodal rail yard with eight tracks totaling 8,534 metres (28,000 feet). Participate on this offsite tour and receive a guided tour of the Deltaport property and learn how the facility are operates. We will depart by bus from the hotel following the morning keynote, drive directly to the terminal and have a guide tour while on the bus. Following the bus tour will we have a short presentation by GCT Deltaport, and enjoy a boxed lunch before returning to the hotel for the closing presentation. Pre-registration is required for this tour.

LOCATION: DEPART HOTEL LOBBY ON THURSDAY, SEPTEMBER 24 AT 9:00 AM

Canada Post Sorting Facility Tour



Canada Post's Pacific Processing Centre opened for business on February 23, 2014. The facility is strategically located at the Vancouver International Airport and is a vital link between Canada, the United States and Asia-Pacific Rim countries. The facility has some of the largest, fastest and most efficient mail-processing and package-sorting equipment on the continent. Participants are invited to tour this state of the art Pacific Processing Centre (PPC) that measures almost 460 meters long by almost 145 meters wide, covering an area of close to 66,000 square meters on 17 hectares of land. See behind the scenes, how the facility is able to process an average of 4 million pieces of mail each day. Highlights of the tour include: shipping sorter observation area, packet sorters, edger facer machines plus more. Participants will be bused to the processing centre following the morning keynote, participate in the tour, along with a brief presentation. Boxed lunch is included. The tour bus will bring participants back to the hotel in time for the closing presentation. Pre-registration for the tour is required.

LOCATION: DEPART HOTEL LOBBY ON THURSDAY, SEPTEMBER 24 AT 9:00 AM

MAINTRAIN 2015 EXHIBITOR SHOWCASE

PEMAC is very excited to welcome a wide range of organizations who will be participating in our exhibitor showcase this year. Be sure to drop by and visit each of them in the foyer of the conference floor, and gain some valuable insight for your own organization. We also invite you to join us for the welcome reception in the exhibitor showcase on Monday, September 21 from 17:00 to 19:00 to meet and mingle with fellow delegates, sponsors and exhibitors. Light refreshments will be served.

Exhibitor Showcase Hours:

Monday, September 21st - 14:30 to 19:00 Tuesday, September 22nd - 7:15 to 17:30 Wednesday, September 23rd - 7:15 to 17:30

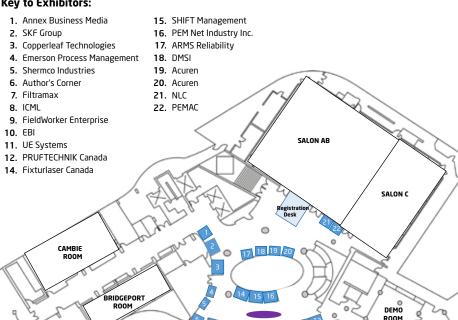
AUTHOR'S CORNER

PEMAC welcomes a number of author's to the MainTrain conference this year, and invites conference participants to join each of them one on one in our Author's Corner featured in the exhibitor showcase at booth #6. Come visit each of these author's at the dedicated time:

Mond	Monday, September 21		Tuesday, September 22		esday, September 23
17:00 to 18:00	James Reyes-Picknell	10:00 to 10:20	Roop Lutchman	10:00 · 10:2	o Terry Wireman
18:00 to 19:00	Terry Wireman	15:45 to 16:15	Roop Lutchman	15:45 ⁻ 16:1	James Reyes-Picknell

Key to Exhibitors:

RICHMOND ROOM



CONFERENCE SCHEDULE AT-A-GLANCE

Monday, September 21, 2015

0715 - 0800	Registration & Breakfast LOCATION: SALON AB				
0800 - 0845	Welcome and Opening Keynote – Sponsored by SKF Group Rob Lash, President - Board of Directors, PEMAC and Manager, Optimized Maintenance Toronto Water LOCATION: SALON AB				
0900 - 1000	Uptime Three - James Reyes-Picknell, Conscious Asset LOCATION: SALON C	The ISO 55000 Asset Management Workshop - Terry Wireman, VestaPartners, LLC LOCATION: CAMBIE ROOM	Lubrication Practices: Maximize Asset Life Cycle Value Workshop - Mark Barnes, Des- Case Corporation LOCATION: RICHMOND ROOM	MMP Module 1 "An Integrated Strategy for Maintenance Management" Day One Al Johnson, Clearpass Inc. & Leonard Middleton, PwC Continued on Thursday September 24th LOCATION: BRIDGEPORT ROOM	
1000 - 1015	Break LOCATION: SALON FOYE	ER			
1015 - 1200	Uptime Three (continued) James Reyes-Picknell, Conscious Asset LOCATION: SALON C	The ISO 55000 Asset Management Workshop (continued) - Terry Wireman, VestaPartners, LLC LOCATION: CAMBIE ROOM	Lubrication Practices: Maximize Asset Life Cycle Value Workshop (continued) - Mark Barnes, Des-Case Corporation LOCATION: RICHMOND ROOM	MMP Module 1 "An Integrated Strategy for Maintenance Management" Day One (continued) Al Johnson, Clearpass Inc. & Leonard Middleton, PwC LOCATION: BRIDGEPORT ROOM	
1200 - 1300	Lunch LOCATION: SALON AB				
1300 - 1430	Setting up M&R Foundation for New Facilities - Sridhar Ramakrishnan & Saigopal Visvanathan, Suncor Energy LOCATION: SALON C The ISO 55000 Asset Management Workshop (continued) - Terry Wireman, VestaPartners, LLC LOCATION: CAMBIE ROOM		Lubrication Practices: Maximize Asset Life Cycle Value Workshop (continued) - Mark Barnes, Des-Case Corporation LOCATION: RICHMOND ROOM	MMP Module 1 "An Integrated Strategy for Maintenance Management" Day One (continued) Al Johnson, Clearpass Inc. & Leonard Middleton, PwC LOCATION: BRIDGEPORT ROOM	
1430 - 1500	Break & Exhibitor Showcase Opens - Sponsored by IFS LOCATION: SALON FOYER				

	Setting up M&R		Lubrication	MMP Module 1 "An	
	Foundation for	The ISO 55000	Practices: Maximize	Integrated Strategy	
	New Facilities	Asset Management	Asset Life Cycle	for Maintenance	
	(continued) - Sridhar	Workshop	Value Workshop	Management" Day One	
	Ramakrishnan	(continued) -	(continued) - Mark	(continued)	
	& Saigopal	Terry Wireman,	Barnes, Des-Case	Al Johnson, Clearpass Inc.	
	Visvanathan, Suncor	Vesta Partners LLC	Corporation	& Leonard Middleton, PwC	
1500 -	Energy	LOCATION: CAMBIE	LOCATION: RICHMOND	LOCATION: BRIDGEPORT	
1630	LOCATION: SALON C	ROOM	ROOM	ROOM	
1640 -	Closing Comments				
1700	LOCATION: SALON AB				
1700 -	Welcome Reception in Exhibit Showcase & Author's Corner				
1900	LOCATION: SALON FOYE	ER			

Tuesday, September 22, 2015

0715 - 0800	Registration, Breakfast, Exhibitor Showcase LOCATIONS: SALON AB (BREAKFAST), SALON FOYER (EXHIBITOR SHOWCASE)			
0800 - 0845	Opening Keynote Roop Lutchman, GHD LOCATION: SALON AB			
0900 - 1000	If the Glove Fits – JP. Pascoli, Cameco Corporation LOCATION: SALON C Break with Exhibitors & Author	Electrical Power System Reliability - Kerry Heid, Shermco Industries LOCATION: CAMBIE ROOM or's Corner	Strategies for Successful EAM: CMMS Implementation - Raymond Kelly, Infor (Canada) Ltd. LOCATION: RICHMOND ROOM	
1020	LOCATION: SALON FOYER			
1020 - 1120	They Don't Need to be Destined for Failure - James Reyes-Picknell, Conscious Asset LOCATION: CAMBIE ROOM	Effectiveness of Multi Skilling Maintenance Training for Trades - S Mick Andic, BCIT LOCATION: SALON C	How Does Asset Management Fit in Your Organization? - Dharmen Dhaliah, City of Toronto LOCATION: RICHMOND ROOM	
1130 - 1230	Sustainability Through Reliability Initiatives at Toronto Pearson - Clarence Walters, GTAA LOCATION: SALON C	Reducing Slurry Pump Maintenance Downtime - Justin Van-de-Velde & Richard Binning, Toyo Pumps LOCATION: CAMBIE ROOM	Managing Assets - Roop Lutchman, GHD LOCATION: RICHMOND ROOM	
1230 - 1330	Lunch, Exhibitor Showcase & A	Author's Corner H), SALON FOYER (EXHIBITOR SHOWC	ASE)	
1330- 1430	Master's Panel LOCATION: SALON AB			
1445 - 1545	The Challenges of Monitoring Mobile Mining Equipment - Ron Newman, PRUFTECHNIK Canada LOCATION: SALON C	Integrated Asset Health Management Program - Steve Reilly, Design Maintenance Systems Inc. & Curtis Chang, Teck Resources LOCATION: CAMBIE ROOM	Using Process Improvement Methodology - Lindsay Hall, EPCOR Utilities LOCATION: RICHMOND ROOM	

1545 -	Break, Exhibitor Showcase & Author's Corner			
1615	LOCATION: SALON FOYER			
1615 - 1715	RBD Development for Economically Challenging Times - Nicolas Castaneda, ARMS Reliability LOCATION: SALON C PM Optimization in Steel Industry Through Re- Engineering Critical Parts - Ahmed Rezika, RajhiSteel LOCATION: CAMBIE ROOM Getting the Most Out of Your CMMS - Abrar Ahmad, Asset Management Professional LOCATION: RICHMOND ROOM			
1715 -	Closing Comments			
1730	LOCATION: SALON AB			
1830 - 2130	PEMAC Annual Awards Banquet with Tom Wujec LOCATION: SALON AB			

Wednesday, September 23, 2015

0715 -	Breakfast, Exhibitor Showcase			
0800	LOCATIONS: SALON AB (BREAKFAST), SALON FOYER (EXHIBITOR SHOWCASE)			
0800 -	Opening Keynote - Dan Pontefract sponsored by ARMS Reliability			
0845	LOCATION: SALON AB			
0900 - 1000	Reliability and Maintainability Up-Front – Hammad Sharif, BHP Billiton LOCATION: SALON C	Using Communities of Practice to Drive Organizational Performance and Innovation - Nayef Mahgoub, Akron Engineering Consultant's Group LOCATION: CAMBIE ROOM	How Does Maintenance and Reliability Support Asset Management - Terry Wireman, VestaPartners LLC LOCATION: RICHMOND ROOM	
1000 -	Break with Exhibitors & Author's Corner			
1020	LOCATION: SALON FOYER			
1020 - 1120	Process Performance Optimization SM (PPO): Combining Reliability, Lean and Change Management - Bruce Wesner, Life Cycle Engineering LOCATION: SALON C Captstone Project Winners LOCATION: SALON C LOCATION: RICHMOND ROOM LOCATION: CAMBIE ROOM			
1130 - 1230	Spillway Projects - Frank Thede & Roselia Moreno, Acclaro Management Corporation LOCATION: CAMBIE ROOM Nova Scotia Power Asset Management Journey - Warren Rodgers, Nova Scotia Power LOCATION: RICHMOND ROOM LOCATION: SALON C			
1230 -	Lunch, Exhibitor Showcase, Author's Corner			
1330	LOCATIONS: SALON AB (LUNCH), SALON FOYER (EXHIBITOR SHOWCASE)			
1330-	Bear Pit			
1430	LOCATION: SALON AB			

1445 - 1545 - 1615	Replace or Maintain: The Vancouver Ship Unloader Story - Chris Roberts, Acuren LOCATION: CAMBIE ROOM Break, Exhibitor Showcase & A LOCATION: SALON FOYER	Concentrated on Effective Change - Improved Maintenance Approach - Bjarni Isleifsson & Leonard Middleton, PwC LOCATION: RICHMOND ROOM	Implementing Integrated Enterprise Asset Management System for our Nation's Capital - A 5 Year Journey - Devesh Shah, City of Ottawa LOCATION: SALON C	
1615 - 1715	INVISTAS Battle Plans - Suzy Hitchcock, ICML LOCATION: RICHMOND ROOM	Developing People - PEMAC PD Programs and How They Stack Up Internationally - Cindy Snedden, PEMAC LOCATION: CAMBIE ROOM	How Reliability Helps Win New Business - Nicole Ponsonby, The Asset Performance Group LOCATION: SALON C	
1715 - 1730	Closing Comments LOCATION: SALON AB			
1830 - 2130	ICML Exam - LOCATION: RICHMOND ROOM CAMA Exam - LOCATION: CAMBIE ROOM CMRP Exam - LOCATION: BRIDGEPORT ROOM			
1830 - 2030	PEMAC General Meeting LOCATION: SALON AB			

Thursday, September 24, 2015

0715 -	Breakfast				
0800	LOCATION: SALON AB				
0800 -	Opening Keynote - Deryk Anderson AMC Australia				
0845	LOCATION: SALON AB				
0900 - 1000	Improving Your Cross Cultural Communication for the Workplace - Marie Gervais, Shift Management LOCATION: SALON C	Asset Management Fundamentals Module Deryk Anderson, AMC Australia LOCATION: RICHMOND ROOM	GCT Deltaport Facility Tour LOCATION: OFF- SITE	Canada Post Sorting Facility Tour LOCATION: OFF- SITE	MMP Module 1 "An Integrated Strategy for Maintenance Management" Day Two Al Johnson, Clearpass Inc. & Leonard Middleton, PwC Continued from Monday, September 21st LOCATION: BRIDGEPORT ROOM
1000 - 1015	Break LOCATION: SALON FOYER				

1015 - 1200 1200 -	Improving Your Cross Cultural Communication for the Workplace (continued) - Marie Gervais, Shift Management LOCATION: SALON C Lunch	Asset Management Fundamentals Module (continued) Deryk Anderson, AMC Australia LOCATION: RICHMOND ROOM	GCT Deltaport Facility Tour LOCATION: OFF- SITE	Canada Post Sorting Facility Tour LOCATION: OFF- SITE	MMP Module 1 "An Integrated Strategy for Maintenance Management" Day Two (continued) Al Johnson, Clearpass Inc. & Leonard Middleton, PwC LOCATION: BRIDGEPORT ROOM
1300	LOCATION: SALON	AB			
1300 - 1500	Improving Your Cross Cultural Communication for the Workplace (continued) - Marie Gervais, Shift Management LOCATION: SALON C	Asset Management Fundamentals Module (continued) Deryk Anderson, AMC Australia LOCATION: RICHMOND ROOM	GCT Deltaport Facility Tour LOCATION: OFF- SITE	Canada Post Sorting Facility Tour LOCATION: OFF- SITE	MMP Module 1 "An Integrated Strategy for Maintenance Management" Day Two (continued) Al Johnson, Clearpass Inc. & Leonard Middleton, PwC LOCATION: BRIDGEPORT ROOM
1500	Closing Comments LOCATION: SALON AB				

Things happen and plans change. PEMAC reserves the right to make changes to the conference schedule right up until the day of the event.

SPEAKERS & PRESENTERS

Special guest: Tom Wujec, International Expert on Innovation

Tom Wujec, International Expert on Innovation, Fellow at Autodesk will be our special guest speaker at the MainTrain awards banquet taking place on Tuesday, September 22 from 18:30 to 21:30. Tickets are required in advance to attend this event. Stop by the registration desk to purchase tickets if you have not purchased tickets already.

Tom speaks internationally about innovation: why it matters, why it is a vital engine of economic growth (especially today), and how to foster it. An expert in fostering innovation, cultivating creative leadership and harnessing emerging technologies to businesses, this world renowned author and speaker will share great insight that you can take back and apply to your teams and organization. A great addition to our conference!



Keynote speakers:

Rob Lash, President,

The Plant Engineering & Maintenance Association

With his role as President of the PEMAC Board of Directors, and his extended role on the Global Forum on Maintenance & Asset Management (GFMAM), Rob has gained a unique insight into how organizations across Canada and even globally are working to manage assets in a more strategic way. By day, Rob is the Manager of Optimized Maintenance at Toronto Water for the City of Toronto, where over the past several years much has been developed to improve the maintenance and reliability of Toronto Water. This role along with his PEMAC role provides Rob with a great perspective that he will share during this presentation on Monday, September 21 at 8:00.



Roop Lutchman, Lead Business Consulting at GHD Inc.

Roop is GHD's Leader (Americas) for Business Consulting and is based in its Mississauga office. He has over 30 years of combined management consulting and industry experience. He is a professional engineer and a recognized industry expert in the Management Consulting area with specific focus in strategic planning, business optimization, asset management, organizational development, operations & maintenance and use of technology to enable business processes. Roop will be presenting during MainTrain's Tuesday, September 22 opening keynote at 8:00, and again during a session Tuesday at 11:30.



Dan Pontefract, Author and International Speaker

Special guest speaker Dan Pontefract will address participants during the morning keynote on Wednesday, September 23 at 8:00 am. A local to British Columbia, Dan is the author of "FLAT ARMY: Creating a Connected and Engaged Organization" and "DUAL PURPOSE: Redefining the Meaning of Work". Dan will speak about building an engaged and innovative workplace, shaking it up and developing collaborative behaviour. Sponsored by ARMS Reliability.



SPECIAL FEATURES:

TAKE THE TEST

ICML Exam

The International Council for Machinery Lubrication exam will be available on Wednesday, September 23 from 18:30. Pre-registration of the exam is required. To register for the exam, please submit your application form directly with ICML at www.icmlonline.com/apply/)

Visit the ICML website (www.lubecouncil.org) for more information about the exam, as well as the council and its Certification Program. As well be sure to visit the ICML booth in the exhibitor showcase.

WEDNESDAY, SEPTEMBER 23: 18:30 TO 21:30 - LOCATION: RICHMOND ROOM

CMRP Exam

The Certified Maintenance & Reliability Professional (CMRP) exam will be available to take at MainTrain. Managed by the Society for Maintenance and Reliability Professionals (SMRP) the CMRP is accredited by the American National Standards Institute (ANSI), which follows ISO standards for its accreditation and processes. Click here for more information about SMRP and the exam. The exam will be held on September 23 starting at 18:30. For more information and to register visit www.smrp.org

Certified Asset Management Assessor Exam

The CAMA Exam was developed by leading not-for-profit asset management organizations* and has been verified through rigorous technical and psychometric testing. This 2 hour exam complies with the GFMAM's Competency Specification for an ISO 55001 Asset Management Auditor/Assessor, ensuring that successful applicants have the minimum required knowledge to be an ISO 55001 assessor. For more information and to register visit: www.wpiam.com.



WEDNESDAY, SEPTEMBER 23: 18:30 TO 21:30 - LOCATION: CAMBIE ROOM

^{*} WPiAM is a partnership between the following non-profit professional associations: AMC (Australia), ABRAMAN (Brazil), SMRP (USA), PEMAC (Canada) and IFRAMI (France)

PEMAC General Meeting

All members are invited to the PEMAC Members' meeting for an association update and to offer input to future association development. There is a lot of business to cover and we invite everyone to participate. Light dinner will be served.

WEDNESDAY, SEPTEMBER 23: 18:30 to 20:30 - LOCATION: SALON AB

PEMAC Turns 25

In 1989 a few engineers and maintenance professionals put their heads together to address a mutual concern: maintenance practitioners provide a vital service and make significant decisions that have an impact on the sustainability of their organizations, yet there was no association in Canada catering to the needs of workers in the maintenance profession and no recognition of the essential role they play in the success of asset-intensive organizations, such as public infrastructure and private manufacturing and processing plants. They discussed and brainstormed ideas about creating a Canadian association to represent maintenance professionals and support maintenance professionalism. From there PEMAC was born.



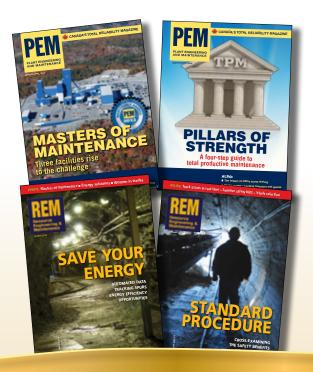
Twenty-five years later PEMAC has grown into an organization that continues to search for ways to achieve its vision and mission. We invite you to celebrate PEMAC's milestone anniversary with us throughout the conference, including our conference welcome keynote on Monday, September 21 at 8:00. Be sure to share your PEMAC story there as well on Twitter @PEMACexec and @MainTrain2015

Job Board

Brand new this year, PEMAC is hosting a job board for our conference participants to visit. We will be posting details about open positions that are currently posted on PEMACs job postings page, as well as summaries of individual members currently looking for new opportunities. Be sure to stop by the job board in the conference foyer and see what all the excitement is about. For more information about posting your job openings with PEMAC and reaching thousands of maintenance, reliability and asset management professionals across Canada, visit www.pemac.org/job-postings.







Your access to Canada's largest network of maintenance, reliability and physical asset managers

www.pem-mag.com www.rem-mag.com



PRESENTERS:

Abrar Ahmad, Asset Management Professional Abrar has been the manager of business process integration at a leading oil company since 2007. His current role is to help establish sound systems, processes, training and methodologies to support integrated reliability programs and related projects. Abrar has worked in the industry for 28 years and has diverse experience in the oil and gas, petrochemical, fertilizers and other industries. He also has more than 17 years of experience with SAP Plant Maintenance. In addition, Abrar is currently the President of PEMAC Alberta Chapter, and instructor for MMP courses. Connect with Abrar during his session.



SESSION: GETTING THE MOST OUT OF YOUR CMMS - TUESDAY, SEPTEMBER 22 AT 16:15

LOCATION: RICHMOND ROOM

S. Mick Andic Program Head and Instructor at British Columbia Institute of Technology Mick is Program Head of Bachelor of Technology in Manufacturing, part-time degree program at British Columbia Institute of Technology. He holds undergraduate and graduate degrees in Mechanical Engineering from University of Waterloo. His work experience includes 15 years in manufacturing industry in Ontario, and 29 years in post-secondary education in Ontario and British Columbia. His professional focus in teaching, research, and engineering applications is on efficient fluid power transmission and control, design for environment, and design for manufacture and assembly.



SESSION: EFFECTIVENESS OF MULTI SKILLING MAINTENANCE TRAINING FOR TRADES -

TUESDAY, SEPTEMBER 22 AT 10:20

LOCATION: SALON C

Mark Barnes, Vice-President Reliability Services at Des-Case

Mark serves as Vice President of the Des-Case Lubrication
Transformation Services team. In this role, Mark and his team of
lubrication experts help educate end-users on the value of precision
lubrication and provide support to help asset intensive companies
change the way they perform lubrication. Mark has been an active
consultant and educator in the maintenance and reliability field for
nearly 20 years and has worked with clients around the world to
design and implement lubrication improvement plans. Mark holds a
PhD in Analytical Chemistry and is a certified maintenance and



reliability professional (CMRP) from SMRP (Society for Maintenance and Reliability Professionals). Don't miss Mark's all day workshop.

WORKSHOP: LUBRICATION PRACTICES: MAXIMIZE ASSET LIFE CYCLE VALUE -

MONDAY, SEPTEMBER 21 AT 9:00

Richard Binning, Chief Operating Officer at Toyo Pumps. Richard is Chief Operating Officer of Toyo Pumps. Richard is a Chemical Engineering graduate from University of Waterloo. He has been involved in the slurry pump business for 35 years. Be sure to join Richard when co-presents with Justin Van-de-Velde during the session.

SESSION: **REDUCING SLURRY PUMP MAINTENANCE DOWNTIME AND OPERATING COSTS AT A LARGE MINE IN CANADA** - TUESDAY,

SEPTEMBER 22 AT 11:30

LOCATION: CAMBIE ROOM



Nicolas Castaneda, Reliability Engineer at ARMS Reliability

As a mechanical engineer who graduated in Colombia in 2010, Nicolas worked initially for Wood Group as a reliability engineer and RAMS specialists in projects in South America, before being engaged for a 1 year RAMS study on offshore platforms in Trinidad and Tobago for BP. Nicolas now works with ARMS Reliability as a Reliability Engineer in North America, working on projects for companies like BP, Rio Tinto and Cenovus involving RCM, RBD, Criticality analyses, FMEA and strategy optimization. He is currently based in Calgary.



SESSION: RBD DEVELOPMENT FOR ECONOMICALLY CHALLENGING TIMES -

TUESDAY, SEPTEMBER 22 AT 16:15

LOCATION: SALON C

Curtis Chang, Reliability Specialist at Teck Resources Limited.

Curtis is a P. Eng and Certified Reliability Engineer (CRE) with nine years of experience in reliability and maintenance. He is experienced in implementing reliability and maintenance systems for various industries including pulp & paper, utilities, forest products, and marine. As a reliability specialist at Teck, Curtis has successfully led and managed the implementation of condition-based asset management and real-time mobile equipment monitoring systems for heavy mobile and fixed plant assets. Curtis is a Mechanical Engineering graduate from University of British Columbia in Vancouver, Canada. He is also a



Project Management Professional (PMP) and a certified Prsoci Change Management practitioner.

SESSION: INTEGRATED ASSET HEALTH MANAGEMENT PROGRAM -

TUESDAY, SEPTEMBER 22 AT 14:45

LOCATION: CAMBIE ROOM

Paul Daoust, Principal Reliability Engineer at Transalta

Paul is a passionate and energetic reliability and maintenance professional driving value in asset management, process safety management, technical risk management, maintenance management and reliability engineering for capital intensive industries. He has a strong and varied technical and management leadership background in maintenance and engineering with over 24 years of experience supporting a diverse portfolio of fossil fuel and renewable power generation assets. Meet Paul during his session.



SESSION: CASCADING LEADING & LAGGING MAINTENANCE & RELIABILITY METRICS -

WEDNESDAY, SEPTEMBER 23 AT 11:30

LOCATION: RICHMOND ROOM

Dharmen Dhaliah, Manager Asset Management,
Solid Waste Management Services, City of Toronto Dharmen is
currently leading the development and implementation of an Asset
Management framework for the SWMS Division in City of Toronto. Prior
to that Dharmen worked for five years in Toronto Water as Engineer/
Senior Engineer, Asset Reliability where he lead the development and
standardization of maintenance and reliability practices across Toronto
Water & Wastewater sites and facilities. He also successfully
developed and lead the implementation of a condition based

maintenance program to improve asset performance. Dharmen has



over 23 years of experience in maintenance & reliability engineering, operations & asset management, and project management in a wide range of industry. Dharmen is a member of the Board of Directors of PEMAC and was also involved with the Canadian Advisory Committee (CAC) for the development and review of the Asset Management ISO 55000 Suite Standards. Dharmen is fluently bilingual and he is instructor of the Maintenance Management Program (MMP) for Northern Lakes College, Alberta and Ècole de Technologie Supérieure, Quebec. Don't miss Dharmen's session.

SESSION: HOW DOES ASSET MANAGEMENT FIT IN YOUR ORGANIZATION? -

TUESDAY, SEPTEMBER 22 AT 10:20

Marie Gervais, PhD., Director at Shift Management Inc.

Marie provides managerial training, eLearning, program assessments and intercultural competency leadership for business and industry. With her background in business support, learning design for measurable outcomes and intercultural competence, she applies field-based practical tools to workplace problems and facilitates collaborative learning among experts and novices alike. Marie is an active member of the Manufacturing Leadership Executive and serves on the Workforce Development and Leadership committees. Fluent in both English and French, she is a certified adult learning specialist



with the Canadian Society for Training and Development, has her training for Return on Investment credentials with ROI Canada, is a certified evaluator with the Canadian Society for Evaluation and holds her level one International Mentorship Training Certificate. Be sure to join Marie's all day workshop.

WORKSHOP: **IMPROVING YOUR CROSS CULTURAL COMMUNICATION FOR THE WORKPLACE** - THURSDAY, SEPTEMBER 24 AT 9:00

LOCATION: SALON C

Lindsay Hall, Specialist, Asset Management Strategy at EPCOR
Utilities Inc. Lindsay is a Specialist, Asset Management Strategy at
EPCOR Water Services, based in Edmonton, Alberta. In this role, she is
involved with the development of the internal Asset Management
Framework, and provides support to EPCOR's municipal and industrial
water treatment sites, including assisting with the development and
optimization of planned maintenance schedules, asset renewal/
replacement modelling and forecasting, and the facilitation of asset
criticality and maintenance review/optimization workshops. Lindsay
holds a degree in Mechanical Engineering from the University of



Alberta and is a professional engineer in the Province of Alberta. Meet Lindsay during her session.

SESSSION: **USING PROCESS IMPROVEMENT METHODOLOGY** - TUESDAY, SEPTEMBER 22 AT 14:45

LOCATION: RICHMOND ROOM

Suzy Hitchcock, Executive Director of International Council for Machinery Lubrication Suzy has been involved in industry for over twenty years. She is a delegate for Australia to ISO, where she is project leader for ISO standards on the qualification and assessment of lubrication and oil analysis personnel. She is also a member of Standards Australia's CM Committee and a contributing author for several technical publications; being internationally published. A sought after presenter, Suzy speaks regularly in conferences around the globe. Be sure to attend Suzy's session.



SESSION: INVISTAS BATTLE PLANS - WEDNESDAY, SEPTEMBER 23 AT 16:15

Bjarni Isleifsson, Manager at PwC Bjarni is an innovative, solutions-driven professional commanding over 20 years of progressive success in maintenance and reliability, asset, operations, and project management, along with mechanical engineering and consulting. He is an accomplished and entrepreneurial leader providing additional expertise in mechanical systems and software, design, vibration monitoring and analysis as well as strong knowledge in most predictive maintenance methods. He participated as a member of the Standards Council of Canada (SCC) Mirror Committee, TC 251 Asset Management in the development of ISO 5500x Asset Management



series of standards (ISO 55000 - Overview, Principles and Terminology; Asset Management - ISO 55001 - Requirements; and Asset Management - ISO 55002 - Guidelines for Application of the Requirements), strong knowledge of PAS55 standard and ISO55000 standard. Bjarni is the founding partner of the Icelandic Maintenance Association and the Chairman of the board for that Association from its foundation until 2012, upon moving to Canada. Bjarni currently serves on the PEMAC Board of Directors. Don't miss Bjarni when he co-presents with Leonard Middleton during their session.

SESSION: CONCENTRATED ON EFFECTIVE CHANGE - IMPROVED MAINTENNACE APPROACH - WEDNESDAY. SEPTEMBER 23 AT 14:45

LOCATION: RICHMOND ROOM

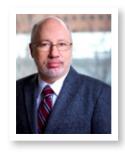
Raymond Kelly, Senior ICS Consultant at Infor (Canada) Ltd. Raymond has over 20 years of experience implementing and supporting EAM/ CMMS systems in a variety of resource-based, asset intensive industries. Certified Maintenance Management Professional (MMP) through PEMAC, Raymond has worked directly with customers to develop effective business process designs that leverage customer's investment in all aspects of EAM/CMMS implementation, application support, development, data conversions, training and project management. His in-depth knowledge and practical experience of applying advanced maintenance and reliability methodologies



supports his ability to assist customers in all levels of the organization by maximizing asset life with effective strategies that consistently meet or exceed the business requirements of the organization. Raymond also has in depth knowledge and experience in the application and use of advanced maintenance and reliability strategies. Be sure to join him during his session.

SESSION: **STRATEGIES FOR SUCCESSFUL EAM: CMMS IMPLEMENTATION** - TUESDAY, SEPTEMBER 22 AT 9:00

Leonard Middleton, Manager at PwC Leonard has over 35 years of professional and international experience including: engineering; project management; and maintenance, reliability and asset management. He has worked in a number of asset intensive industries including utilities (electrical power transmission and distribution, electrical power generation, heating and cooling utility, potable water), mining, upstream oil and gas, upgrading, petrochemical, utility operations related to upstream oil and gas and petrochemical, manufacturing, automotive, and forestry. He is recognized as a subject matter specialist with knowledge in: assessments of maintenance,



reliability, and asset management; assessments of project management practices; maintenance, reliability and asset management strategy; maintenance tactics development (RCM); maintenance work management; and maintenance performance measures and benchmarking. He has developed and delivered training to clients, and through his work with PEMAC has developed and delivered courses for their MMP (Maintenance Management Professional) Program. Currently serving as Vice President of the PEMAC Board of Directors, Leonard has worked in a variety of technical and consulting roles in his career, including with a variety of multi-national global fortune 500 companies and for various clients in Canada, United States, United Kingdom, Argentina, Chile, Caribbean, Africa, and the Middle East. Meet Leonard when he co-presents with Bjarni during their session.

SESSSION: **CONCENTRATED ON EFFECTIVE CHANGE - IMPROVED MAINTENANCE APPROACH** - WEDNESDAY, SEPETEMBER 23 AT 14:45

LOCATION: RICHMOND ROOM

WORKSHOP: **MMP MODULE ONE** - MONDAY, SEPTEMBER 21 AND THURSDAY, SEPTEMBER 24

AT 9:00

LOCATION: BRIDGEPORT ROOM

Roselia Moreno, Manager, Reliability Engineering at
Acclaro Management Corporation Roselia has over 15 years of
combined engineering, project management and business operations
experience. Her strong analytical and organizational skills, and global
approach to process improvement ensures her success in launching
and sustaining reliability initiatives. Roselia has experience as a Lean
Manufacturing/Project Management leader with progressively
increased responsibility and proven success in managing and
implementing multiple projects with a budget range of US\$6M US\$10M. Her functional areas of expertise include: purchasing,



supplier quality, product engineering, manufacturing/operations, reliability analysis and maintenance. Fluent in English and Spanish, Roselia has a MBA from Tulane University A.B. Freeman School of Business, specialization in operational management, I.E.S.A. (Institute for Advanced Studies in Administration), as well as Bachelor of Science (Materials Engineering). Currently with Acclaro Management Corporation - Reliability Works in Vancouver, Roselia has great insight to share. Join her as she co-presents with Frank Thede.

SESSION: SPILLWAY PROJECTS - WEDNESDAY, SEPTEMBER 23 AT 11:30

LOCATION: CAMBIE ROOM

Boudewijn Neijens, CMO at Copperleaf Technologies Boudewijn holds a degree in Mechanical Engineering from the University of Brussels, an MBA from INSEAD in France, and CMRP and CRL certifications. His has been involved with high-technology startups for the last 20 years, currently in the fields of asset management and of environmental data processing. He is the Chief Marketing Officer at Copperleaf Technologies in Vancouver, Canada. In this role he works with large asset-intensive corporations around the world to refine their asset management practices in the areas of Asset Investment Planning and Management, decision support systems and risk-based planning



models. He is the President of the Vancouver Chapter of PEMAC and Vice-Chair of the Canadian Chapter of the IAM. Boudewijn is also Vessel and Equipment Manager at the Royal Canadian Marine SAR, a volunteer search and rescue organization operating over 60 fast rescue vessels along the rugged Pacific coast of BC. In this role he manages the maintenance and 24-hour operation of mission-critical rescue vessels, and crews as a SAR lead at his local rescue station.

SESSION: VALUE BASED DECISION MAKING - WEDNESDAY, SEPTEMBER 23 AT 10:20

LOCATION: CAMBIE ROOM

Ron Newman, Sales & Technical Support at PRUFTECHNIK Canada Ron is a MIBoC (Mobius Institute Board of Certification) CAT III Vibration Analyst, accredited BSc, and has been involved in machinery vibration and acoustics for 35+ years. Beginning with IRD Mechanalysis (now Rockwell) in 1977, he spent 4+ years providing sales and consulting field services to Ontario industries. After a short time with Schenck-Trebel, where he gained intimate knowledge of dynamic balancing applications, Ron spent 23 years with Bruel & Kjaer, a world leader in sound and vibration measurement. Throughout his career he has provided formal training seminars and workshops, and



served as a part-time instructor of sound and vibration at the BCIT. Currently, through a partnership between PRUFTECHNIK and the Mobius Institute, Ron acts as senior instructor for CAT I, CAT II and CAT III courses in Canada. Ron has presented Dynamic Balancing, Rolling Element Bearing, and Machinery Resonance webinars/workshops through the Reliability Web and has written articles in trade magazines.

SESSION: **THE CHALLENGES OF MONITORING MOBILE MINING EQUIPMENT** - TUESDAY, SEPTEMBER 22 AT 14:45

LOCATION: SALON C

J.-P. Pascoli, Manager, Engineering & Maintenance at

Cameco Corporation J.-P. is Manager of Engineering & Maintenance at Cameco Corporation's conversion facility in Port Hope Ontario. Prior to his current role, J.-P. held a number of management and engineering positions in maintenance and reliability within a number of industries including forest products, pulp & paper, and mining at various sites in northern Ontario and Ouebec.



Holding a degree in mechanical engineering from Queen's University, I.-P. is a graduate of the University of Toronto's Physical Asset

Management Program. He is a licensed engineer with Professional Engineers Ontario and Ordre des ingénieurs du Québec, as well as a certified maintenance and reliability professional with SMRP. J.-P. currently serves on PEMAC's board of directors and is part of PEM magazine's editorial advisory board. Join J.-P. during his session.

SESSION: IF THE GLOVE FITS - TUESDAY, SEPTEMBER 22 AT 9:00

LOCATION: SALON C

Nicole Ponsonby, Reliability Specialist at The Asset

Performance Group Nicole has a Bachelor of Applied Science in Chemical Engineering and has supported reliability initiatives in the oil & gas and water/wastewater industries. This experience includes criticality and risk analysis, and optimization of asset hierarchies in accordance to ISO 14224. Nicole was instrumental in the rapid deployment of equipment strategies for a SAGD Facility. The equipment strategy development involved PM verification and bundling of tasks, along with the enhancement of existing maintenance strategies using APG's equipment strategy library. Nicole



is one of APC's Reliability Availability and Maintainability (RAM) Analysis specialists and has recently supported a large pipeline corporation in realizing their equipment capacity, forecasting availability, and increasing client confidence to secure future contracts. By supporting various program assessments design and implementation, Nicole realizes the challenges associated with implementing asset care programs. Nicole has adopted a Change Management focussed approach and strives to ensure there is alignment between people, processes, and technology.

SESSION: HOW RELIABILITY HELPS WINS NEW BUSINESS -

WEDNESDAY, SEPTEMBER 23 AT 16:15

LOCATION: SALON C

Sridhar Ramakrishnan, Reliability Improvement Manager at Suncor Energy Inc. Sridhar is a Maintenance and Reliability professional with over 25 years of experience in Oil and Gas operating companies in three countries on two continents. He has a track record of establishing and sustaining the fundamental building blocks Operational Excellence in both, old and new facilities. Sridhar is a P.Eng and Maintenance Management Professional (MMP). He is also on the PEMAC board of directors, and the chair of the MainTrain conference committee. Be sure to attend Sridhar's workshop he co-presents with Saigopal Visvanathan.



WORKSHOP: SETTING UP M&R FOUNDATOIN FOR NEW FACILITIES -

MONDAY, SEPTEMBER 21 AT 13:00

LOCATION: SALON C

Steve Reilly, Director/CTO at Design Maintenance Systems Inc.

Steve is one of the owners of Design Maintenance Systems Inc. (DMSI) and a well-known innovator in the area of asset reliability, operations and maintenance. As DMSI's principal designer, Steve and his team have conceived and brought to market some of the world's most advanced maintenance and reliability products. Steve is a graduate of the University of British Columbia in Vancouver, Canada with degrees in Computer Science and Management Science. During his nearly 30 year career at DMSI, he has designed and developed systems for vibration analysis, lube oil analysis, asset diagnostics, maintenance



planning and scheduling, operations/TPM inspection and maintenance management. Over the last ten years, he has presented papers and led major sessions at the International Maintenance Conference (USA), Reliability 2.0 (USA), Solutions 2.0 (South Africa), Mainstream (Australia), Euromaintenance (Benelux) and the World Congress of Engineering Asset Management (Australia).

Steve will be on hand to co-present with Curtis Chang during their session.

 ${\sf SESSION:} \ \textbf{INTEGRATED ASSET HEALTH MANAGEMENT PROGRAM} - \\$

TUESDAY, SEPTEMBER 22 AT 14:45

LOCATION: CAMBIE ROOM

James Reyes-Picknell, President at Conscious Asset James is the co-author of the best selling book, "Uptime - Strategies for Excellence in Maintenance Management", co-founder and President of Conscious Asset. He is a Mechanical Engineer, graduate of the University of Toronto with a 30-plus year career in Maintenance and Asset Management. He worked in a wide variety of industries in hands-on, technical and managerial roles. His consulting career began in 1995 progressing through increasingly senior roles to Director (Associate Partner) in PwC Consulting / IBM, eventually leading his own firm. Today Conscious Asset, now over 11 years old, is widely regarded as a high quality specialist firm



ensuring the delivery of value from physical assets. James is known as a thought-leader in the fields of Reliability, Maintenance and Asset Management. He is a registered Professional Engineer, a Certified Management Consultant, a Certified Maintenance and Reliability Professional and Certified Asset Management Assessor. He is a member of PEMAC, SMRP, IAM and PEO. Join James for his presentations, and also during the Author's Corner where he launches the release of his new book Uptime 3.

WORKSHOP: **UPTIME THREE** - MONDAY, SEPTEMBER 21 AT 9:00

LOCATION: SALON C

SESSION: TECHNICAL CHANGES - THEY DON'T NEED TO BE DESITINED FOR FAILURE -

TUESDAY, SEPTEMBER 22 AT 10:20

LOCATION: CAMBIE ROOM

Ahmed Rezika, Electric Maintenance Manager at RajhiSteel

Ahmed has over 20 years of maintenance experience in Middle East leading companies ranging from steel to cement industries. He is a certified PMP, as well as an accredited consultant electrical engineer (SCE). Ahmed has been with RajhiSteel since 2004, which produces about 20% of the Saudi Arabia reinforcement bars needs, starting from scrap melting process. Previously he was a maintenance and automation supervisor engineer in ASEC - Sinai Grey Cement project, a company that specializes in EPC and 0&M of cement plants. Prior roles as a maintenance engineer at EZDK Steel Meltshop, and EZZ group provides Ahmed with an indepth knowledge in maintenance.



SESSION: **PM OPTIMIZATION IN STEEL INDUSTRY THROUGH RE-ENGINEERING CRITICAL PARTS** - TUESDAY, SEPTEMBER 22 AT 16:15

LOCATION: CAMBIE ROOM

Chris Roberts, Reliability Engineer at Acuren Group Inc.

Chris, a professional engineer has over five years experience in mechanical and reliability engineering. Specializing in vibration diagnostics and corrective measures. He also has experience in municipal engineering, working with new and upgrading existing municipal infrastructure. Chis holds the CMVA CAT II Vibration Analyst and IR Level I certification. Be sure to join Chris at his session.





Warren Rodgers, Senior Engineer, Asset Management Office at Nova Scotia Power Warren is a professional Mechanical Engineer and Certified Maintenance Reliability Professional with 15 years in engineering and asset management. Formally trained as a mechanic prior to becoming a professional engineer, Warren's background gives him a unique perspective on maintenance and reliability. His skills and experience have helped to build the current asset management program at Nova Scotia Power and lead the predictive maintenance program involving rotating and static equipment. Warren's passion for reliability and asset management is in the challenges faced to keep equipment running without the business even knowing you were there.



SESSION: **NOVA SCOTIA POWER ASSET MANAGEMENT JOURNEY** - WEDNESDAY, SEPTEMBER 23 AT 11:30

LOCATION: SALON C

Devesh Shah, Program Manager Asset Management at City of Ottawa

Devesh is a registered Professional Engineer (Ontario) and MBA with over 22 years of international experience in infrastructure management in public and private sector. He is currently the Program Manager, Asset Management Strategy with City of Ottawa. Devesh has handled key responsibilities in the areas of operations and maintenance, asset management, strategic planning, enterprise applications, change management, business transformation and best practices implementation. He has successfully lead full cycle SAP and Maximo implementations. He has Masters Certificate in Municipal



Leadership from Schulich School of Business and Masters Certificate in Project Management from Carleton University. Devesh has presented a number of papers in Canada, United States and India at professional forums including American Water Works Association, Canadian Network of Asset Managers, IBM and SAP's Global User Conferences, Municipal Information Systems Association of Canada etc. Meet Devesh during his session.

SESSION: IMPLEMENTING INTEGRATED ENTERPRISE ASSET MANAGEMENT SYSTEM FOR OUR NATION'S CAPITAL - A 5 YEAR JOURNEY - WEDNESDAY, SEPTEMBER 23 AT 14:45

LOCATION: SALON C

Hammad Sharif Reliability Engineer at BHP Billiton Sharif is a reliability engineer with 9 years global experience in mineral extraction and processing. He has worked with many multi-national organizations such as Lafarge, Holcim and is currently working with BHP Billiton at Jansen mine project. He is a mechanical engineer (E.I.T) by trade, as well as a certified Maintenance Management Professional, recently completing his Capstone project. Be sure to join Hammad's session.



SESSION: **RELIABILITY AND MAINTAINABILITY UP-FRONT** - WEDNESDAY, SEPTEMBER 23 at 9:00

LOCATION: SALON C

Cindy Snedden, Executive Director for PEMAC Cindy spent 9 years of her career as an oil and gas production engineer and then 11 years in Post-Secondary education and training with a focus on industrial programming. She has a degree in Mechanical Engineering and a Graduate Diploma in Instructional Design with a focus on Distance Education. While working as a training coordinator at Northern Lakes College she helped PEMAC bring the MMP Program to the live online format. She joined PEMAC in 2010 as MMP Program Manager and took on the role of Executive Director in 2012. She represents PEMAC at the Global Forum on Maintenance and Asset Management.



SESSION: **DEVELOPING PEOPLE - PEMAC PD PROGRAMS AND HOW THEY STACK UP INTERNATIONALLY - WEDNESDAY, SEPTEMBER 23 AT 16:15.**

LOCATION: CAMBIE ROOM

Frank Thede, Principal Reliability Engineer, Acclaro Management Corporation Frank brings over 20 years of experience in all aspects of asset management, from capital project management, maintenance management and reliability improvement, to the end of life replacement programs. He has worked on a large variety of projects in Power Generation and Transmission, Oil and Gas, Aluminum, Marine Transportation and Telecommunications. Frank's extensive background in this field, combined with his specialization in reliability and maintenance management provides him with the necessary skill set and experience to effectively manage any group of physical assets. He



is a professional engineer, and holds a bachelor of science in electrical engineering, as well as a member of Society of Maintenance and Reliability Professionals (SMRP) and American Society for Quality Control (ASQC). Join Frank as he co-presents with Roselia Moreno.

SESSION: **SPILLWAY PROJECTS** - WEDNESDAY, SEPTEMBER 23 AT 11:30

Justin Van-de-Velde, CEO at Toyo Pumps. Justin maintains that pump manufacturers are at war with reliability and even goes so far as to say his industry preys on its customers' fear of failure to realize more profits. The expert team at Toyo Pumps has never subscribed to providing pumps that fail and continue to stand apart from their industry by continually learning, innovating and designing solids handling pumps that are specifically designed to excel in the nastiest, most challenging, solids handling applications, where other pumps typically fail as a result greatly reducing costly repair and devastating downtime in critical applications.



Toyo Pumps is a 100% Canadian owned and operated designer and manufacturer of the world's most reliable and heavy duty solids handling pumps. Justin attended the University of Western Ontario and was even recently selected to join 40 top entrepreneurs from across Canada to attend the Richard Ivey Business School's Quantum Shift Program. Justin has lived and worked in London, England, Switzerland and Mexico. He now resides back in Vancouver with his wife and three beautiful children. Be sure to attend the session he is co-presenting with Richard Binning.

SESSION: **REDUCING SLURRY PUMP MAINTENANCE DOWNTIME AND OPERATING COSTS AT A LARGE MINE IN CANADA-** TUESDAY, SEPTEMBER 22 AT 11:30

LOCATION: CAMBIE ROOM

Saigopal Visvanathan, Project Manager - Asset Management at Suncor Energy Inc. Saigopal has 25 years of maintenance and reliability experience in upstream oil and gas industry in both, onshore and offshore facilities. Among other things, he has successfully applied reliability techniques like Reliability Centered Maintenance (RCM) and Risk Based Inspection (RBI) in operating facilities. Saigopal is a P.Eng. registered in the province of Alberta, and a Certified Maintenance & Reliability Professional (CMRP). Saigopal will be co-presenting with Sridhar Sridhar Ramakrishnan during the workshop.



WORKSHOP: **SETTING UP M&R FOUNDATION FOR NEW FACILITIES** - MONDAY SEPTEMBER 21 AT 13:00

MONDAI, SELLEMBER ET AL 15.00

LOCATION: SALON C

Clarence Walters, Manager Mechanical Systems at the Greater Toronto Airport Authority Clarence has worked in the construction and maintenance industry for the past 25 years. He started his career as a Marine Technologist working as a commercial diver working in the offshore construction and oil and gas industry. He transitioned to land construction and the pulp and paper and printing industry where he worked as a mechanical technician. For the past 10 years has been working in facilities maintenance at the Toronto Pearson Airport. Clarence has worked in several roles and currently as the manager of mechanical systems he is responsible for the maintenance and repairs



of the Life Safety system, Plumbing System and Rapid Roll up doors at Terminals 1 and 3. Clarence completed his PEMAC MMP certification in the fall of 2004 and he feels that this certification has better enabled him to make critical decisions on asset reliability and maintenance and has benefitted his career immensely. He is also certified by OACETT and holds a BOMI - Facilities Management Administrator designation.

SESSION: **SUSTAINABILITY THROUGH RELIABILITY INITIATIVES AT TORONTO PEARSON** - TUESDAY, SEPTEMBER 22 AT 11:30

LOCATION: SALON C

Bruce Wesner, Managing Principal at Life Cycle Engineering

Bruce has over 25 years of maintenance, engineering and management experience. He holds Associate and Bachelor degrees in Engineering from Ball State University in Muncie, IN. Bruce also applied his industrial experience and expertise to achieve an MBA with an emphasis in Management. He is a strong business leader with extensive senior management experience with world class companies in HVAC (OEM products), heavy steel fabrication (Tier 1 supplier), tubular steel fabrication (high-volume OEM production), high-tolerance machining, mining, pharmaceuticals, food, chemical processing, and



building products. Bruce has helped both union and non-union workforces achieve success. His strength is driving improvements through lean and reliability-based initiatives. His lean and Toyota Production System training was under the tutelage of Shingujitsu Consulting of Nagoya, Japan. Certified by Prosci as a Change Management Leader, Bruce is very adept at applying change management principles to create successful client outcomes. His expertise includes leading change and mentoring tactically and strategically to achieve results in multi-shift/multi-disciplinary operations.

SESSION: **PROCESS PERFORMANCE OPTIMIZATION SM (PPO): COMBINING RELIABILITY, LEAN AND CHANGE MANAGEMENT** - WEDNESDAY, SEPTEMBER 23 AT 10:20

LOCATION: SALON C

Terry Wireman, Senior Vice President at VestaParnters LLC

Terry, CRL & CMRP, is the senior vice president of strategic development. He leads Vesta's asset management, maintenance, and reliability seminars and training.mFor over four decades Terry has been specializing in the improvement of maintenance and reliability management strategy and processes by assisting clients in developing "Best-in-class" maintenance and reliability policies and procedures. He has authored twenty five textbooks and scores of white papers and articles related to maintenance management process and technology. Terry represented Vesta on the US TAG as part of PC-251 in the



development of the ISO-55000 standard. He currently holds the IAM's Certificate in Asset Management.

WORKSHOP: **THE ISO 55000 ASSET MANAGEMENT WORKSHOP** - MONDAY, SEPTEMBER 21 AT 9:00

LOCATION: CAMBIE ROOM

SESSION: HOW DO MAINTENANCE AND RELIABILITY SUPPORT ASSET MANAGEMENT? -

WEDNESDAY, SEPTEMBER 23 AT 9:00

LOCATION: RICHMOND ROOM



RELIABILITY SERVICES:

Maintenance Plan Optimization Maintenance Strategy Development Asset Management Audits RAMS Analysis RCM Analysis

Vulnerability Analysis Spares Analysis

RELIABILITY TRAINING:

Reliability Methods Reliability Centered Maintenance (RCM) Availability Workbench™

RELIABILITY SOFTWARE:

Availability Workbench™ Reliability Integration Tool (RIT) Enterprise Library

ROOT CAUSE ANALYSIS:

Training Program

Program Development Investigation Services



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DAY 1 - Monday, September 21

7:15 - 8:00 REGISTRATION AND BREAKFAST

LOCATION: SALON AB

8:00 - 8:45 Welcome and Opening Keynote

Rob Lash, President - Board of Directors, PEMAC and Manager, Optimized Maintenance Toronto Water

In this opening presentation, Rob will kick off the conference and welcome everyone to Vancouver providing an overview for the conference ahead. Rob will also share some of the great work going on in Canada and around the globe as it pertains to asset management and maintenance management. He will share PEMAC's insight into the relationship between maintenance management and asset management and how organizations can use developments in this field to add value and increase ROI.

Sponsored by SKF Group

LOCATION: SALON AB

WORKSHOPS 9:00 - 10:00

Uptime Three

James Reyes-Picknell - President, Conscious Asset

"Uptime - Strategies for Excellence in Maintenance Management" has been a best-seller since 1995. It's 3rd edition includes a number of significant changes from the earlier editions reflecting changes in successful practices, the emerging field of Asset Management and the new imperative that any changes become sustainable. This workshop will provide an overview of the new Uptime "Model of Excellence," introduce the book's new material, explain how it all works and fits within the broader asset management framework.

LOCATION: SALON C

The ISO 55000 Asset Management Workshop

Terry Wireman - Senior Vice President, VestaPartners, LLC

This presentation is designed to assist the attendees to understand the concepts and principles of asset management. It will then develop the vision for the maintenance and reliability organizations in an asset management compliant organization. The attendees will leave the presentation with a set of guidelines to insure that their maintenance and reliability organizations can properly support their company's asset management initiatives.

Lubrication Practices: Maximize Asset Life Cycle Value Workshop

Mark Barnes - Vice President, Reliability Services, Des-Case Corporation

Lubrication is a fundamental pillar of any reliability driven maintenance program. But while most maintenance professional recognize the importance of proper lubrication, less than one in three plants have developed lubrication practices that come close to best-in-class. In this workshop, we'll uncover why plants that have poor lubrication practices spend as much as 15-20% more on maintenance than upper quartile performers. Focusing on the six key areas of lubrication; including proper lubricant application, contamination control, storage and handling and oil analysis, participants will be lead through the basic concepts necessary for success. As part of the workshop, participants will be invited to conduct a self-evaluation of their lubrication practices. This will be used to provide a customize benchmark analysis and targeted action item list after the workshop that the plant can use to develop an improvement plan.

LOCATION: RICHMOND ROOM

MMP Module 1 - An Integrated Strategy for Maintenance Management - Day One*

Al Johnson - Senior Asset Management Consultant, Clearpass Inc.

Leonard Middleton - Manager, PwC

PEMAC's Maintenance Management Professional (MMP) program provides training and accreditation to those aspiring to, or already in, maintenance management or supervisory positions. Certified MMPs are qualified to provide cost effective management of a business's physical assets. There are eight modules to the MMP program. Module 1 is being offered as a workshop at MainTrain over a two day period. The second day of this module is schedule for Thursday, September 24.

Based on the course text, Uptime, Module 1 develops the framework for thinking about a strategic approach to maintenance management that is integrated with the business. Drawing on the elements presented in the "Maintenance Excellence Pyramid" of Uptime, participants in Module 1 will learn how strategy, people, basic care, materials management, performance management, work management, support systems, and tools such as RCM (Reliability Centered Maintenance) and RCFA (Root Cause Failure Analysis) can work together to build a culture of excellence.

* There is an additional fee for materials to participate in the MMP Module 1 course. Preregistration is required.

LOCATION: BRIDGEPORT ROOM

10:00 - 10:15 BREAK

LOCATION: SALON FOYER

10:15 - 12:00 Uptime Three (con't)

James Reyes-Picknell, President, Conscious Asset

LOCATION: SALON C

The ISO 55000 Asset Management Workshop (con't)

Terry Wireman - Senior Vice-President, VestaPartners LLC

Lubrication Practices: Maximize Asset Life Cycle Value Workshop (con't)

Mark Barnes - Vice President, Reliability Services, Des-Case Corporation LOCATION: RICHMOND ROOM

MMP Module 1 Day One (con't)

Al Johnson - Senior Asset Management Consultant, Clearpass Inc.Len Middleton - Manager, PwC LOCATION: BRIDGEPORT ROOM

12:00 - 13:00 LUNCH

LOCATION: SALON AB

13:00 - 14:30 Setting up M&R Foundation for New Facilities

Sridhar Ramakrishnan - Reliability Improvement Manager, Suncor Energy

Saigopal Visvanathan - Project Manager, Asset Management, Suncor Energy

Through an interactive session, Sridhar and Saigopal will walk participants through tasks that are required to put in place the important building blocks of Maintenance & Reliability on any new project to maximize value from the assets during their life cycle. While the workshop will be based on the presenters' experience of doing this work over the last 7 years on new projects in the oil sands, the learning can be applied to other various industries as well. Participants will not only learn the extent and depth of coverage of this foundational work, the presenters will also share what they've learned about the point of diminishing returns (where to stop) and the various challenges and pitfalls they have encountered.

LOCATION: SALON C

The ISO 55000 Asset Management Workshop (con't)

Terry Wireman - Senior Vice President, VestaPartners, LLC

LOCATION: CAMBIE ROOM

Lubrication Practices: Maximize Asset Life Cycle Value Workshop (con't)

Mark Barnes - Vice President, Reliability Services, Des-Case Corporation

LOCATION: RICHMOND ROOM

MMP Module 1 Day One (con't)

Al Johnson - Senior Asset Management Consultant, Clearpass Inc.Len Middleton - Manager, PwC LOCATION: BRIDGEPORT ROOM

14:30 - 15:00 BREAK AND EXHIBITOR SHOWCASE OPENS

Break sponsored by IFS.
LOCATION: SALON FOYER



15:00 - 16:30 Setting up M&R Foundation for New Facilities (con't)

Sridhar Ramakrishnan - Reliability Improvement Manager, Suncor Energy Saigopal Visvanathan - Project Manager - Asset Management, Suncor Energy

LOCATION: SALON C

The ISO 55000 Asset Management Workshop (con't)

Terry Wireman - Senior Vice President, VestaPartners, LLC

LOCATION: CAMBIE ROOM

Lubrication Practices: Maximize Asset Life Cycle Value Workshop (con't)

Mark Barnes - Vice President, Reliability Services, Des-Case

LOCATION: RICHMOND ROOM

MMP Module 1 Day One (con't)

Al Johnson - Senior Asset Management Consultant, Clearpass Inc.Len Middleton - Manager, PwC LOCATION: BRIDGEPORT ROOM

16:40 - 17:00 CLOSING COMMENTS

LOCATION: SALON AB

17:00 - 19:00 WELCOME RECEPTION IN EXHIBITOR SHOWCASE & AUTHOR'S CORNER

LOCATION: SALON FOYER

DAY 2 - Tuesday, September 22

7:15 - 8:00 REGISTRATION, BREAKFAST AND EXHIBITOR SHOWCASE

LOCATIONS: SALON AB (BREAKFAST), SALON FOYER (EXHIBITOR SHOWCASE)

8:00 - 8:45 Welcome and Opening Keynote

Roop Lutchman - Leader Business Consulting, GHD

Join Roop during this keynote presentation as he shares his perspective on the asset management landscape in Canada - past, present and future. Learn about the abundance of opportunities for professionals in maintenance and reliability roles as the AM landscape evolves. Roop will be providing his perspectives on the following topics:

- What is asset management and how is this different from ongoing business management?
- What are the drivers for asset management in the private and public sectors?
- The asset management framework
- What is the value proposition in doing asset management? Are there different value propositions for public and private managers of assets?
- How do you implement and sustain AM concepts and practices?
- Is there a need for an AM Governance Model and what are the roles/opportunities that are being created by companies who develop them?
- How do you know you are successful at AM?

LOCATION: SALON AB

SESSIONS 9:00 - 10:00

If The Glove Fits: Lessons Learned from Applying Best Practices

J.-P. Pascoli - Manager Engineering & Maintenance, Cameco Corporation

In 2011, Cameco's Port Hope conversion facility embarked on a journey towards reliability excellence. In doing so it attempted to adopt many best practices only to find out that not all practices could work right away, or as designed, or even at all. Lessons learned covering a number of areas such as materials management, work management, and plant performance measurement will be shared and discussed.

LOCATION: SALON C

Electrical Power System Reliability

Kerry Heid - President & CEO, Shermco Industries Canada Inc.

Proper operation of electrical power distribution infrastructure is critical to safety and reliability in any production facility. Failures in these systems directly attribute to unsafe conditions and can render extensive downtime. CSA has recently released the CSA Z463 "Guideline on Maintenance of Electrical Systems" that covers the entire range of requirements for the electrical maintenance program to drive up time. This presentation will give an overview of the new standard and explore the strategies ensuring dependability in electrical power distribution equipment and systems. Both "on line" and "off line" testing techniques to attain maximum safety and reliability will be discussed.

LOCATION: CAMBIE ROOM

Strategies for Successful EAM: CMMS Implementation

Raymond Kelly - Senior ICS Consultant, Infor (Canada) Ltd.

Many factors can influence the success of an Enterprise Asset Management (EAM) / Computerized Maintenance Management System (CMMS) implementation; the most common problems provide the most effective opportunities for improving overall maintenance practices. In this session, learn from Infor Canada how many of its clients have adopted simple and effective strategies that have allowed them to achieve "competence" and "excellence" levels in the Maintenance Maturity Grid. Learn how EAM/CMMS solutions have assisted organizations that use equipment and machinery to produce products, in maintaining the health and life of their equipment. In this session participants will identify the common issues encountered in the implementation of an EAM/CMMS, and learn how to develop successful strategies not only for a successful implementation, but also continuous improvement maintenance operations, extending beyond maintenance departments. Any EAM/CMMS has the potential to be the most powerful tool in the toolbox of maintenance practitioners. The right strategies will guarantee you succeed in realizing its full potential.

LOCATION: RICHMOND ROOM

10:00 - 10:20 BREAK WITH EXHIBITORS & AUTHOR'S CORNER

LOCATION: SALON FOYER

10:20 - 11:20 Technical Changes - They Don't Need to be Destined for Failure

James Reyes-Picknell - President, Conscious Asset

Technical changes often fail needlessly. Excellence is a journey – a mindset and set of behaviors. It is not a destination. There is no "best practice", only successful. What works in one organization won't necessarily work in yours. Benchmarking can reveal what is possible and how others have achieved it, but like a compass, it only points out direction. Excellence runs deep. No one and no one group or department can be excellent in isolation. That is where many go wrong. Excellence is a collective endeavour that yields collective results. Your initiative, no matter what it is, will fail if you fail to bring your whole organization along with you. This is not just some theoretical, all-encompassing change management theory. Learn about a framework for sustainable change developed from decades of experience, successes and failures in our own field. Whatever technical change you decide to make from what you learn here at MainTrain, you'll stand a far greater chance of success if you consider these factors that go well beyond the technical.

LOCATION: CAMBIE ROOM

Effectiveness of Multi Skilling Maintenance Training for Trades

S Mick Andic - Program Head and Instructor, British Columbia Institute of Technology Multi-skilling refers to one's ability to seamlessly transfer knowledge and skills from one area of application to another. This session will offer some insight into this by first identifying generally known barriers to multi-skilling training (time constraints, lack of in-depth theoretical knowledge amongst the candidates, complexity of equipment, and existing social views). Participants will discuss possible solutions, and six previously published papers dealing with related subjects will be reviewed. Participants will learn that cognitive models used in multi-skilling are well within the human capacity. This session will also discuss the results of a major multi-skilling training project in industry. The analysis of results strongly indicated that transfer routinely occurs in between different domains of acquired knowledge and skill, making multi-skilling an important human resource development tool in the skilled trades.

LOCATION: SALON C

How Does Asset Management Fit in Your Organization?

Dharmen Dhaliah - Manager of Asset Management, City of Toronto

Asset management has been on the front page quite frequently in the last few years both in the public sector and in different industries of the private sector. In this session you will hear about some reasons for that. Two of the main reasons are that there has been an increased interest in the condition of our ageing infrastructure & assets and the publication of the ISO 55000 suites on asset management. With time we have seen the emergence of different companies, organizations (profit & non-profit), consulting firms and conference organizers to regroup asset management practitioners and set the stage to develop, discuss and share asset management best practices and philosophies. We are also seeing the introduction of development and certification programs in asset management being offered globally. The message we are hearing from different industries and their leaders is that there is a pressing need to shift from the traditional maintenance & reliability philosophy to a more holistic approach of asset management. This presentation will provide insights on how organizations are coping with this paradigm shift.

LOCATION: RICHMOND ROOM

11:30 - 12:30 Sustainability Through Reliability Initiatives at Toronto Pearson Airport

Clarence Walters - Manager Mechanical Systems, Greater Toronto Airport Authority

Over the last few years at Toronto Pearson Airport there has been a significant increase

Over the last few years at Toronto Pearson Airport there has been a significant increase in the number of travellers and subsequently a number of new retail food establishments have been added to cater and meet the demand. This session will highlight the challenges of this growth and the increased strain it put on the airport's mechanical systems infrastructure causing service interruptions which affected travellers, tenants and internal operations. In this session participants will see the process Toronto Pearson underwent to assess and diagnose the problems using a Root Cause Analysis (RCA) model, and how we developed and implemented solutions. Participants will see that the reliability initiative was not only able to identify and assist us with technology improvements but helped Toronto Pearson develop new internal standards which have propelled us to a new phase in "water sustainability". Toronto Pearson was the first airport in North America to receive the ISO 14001 certification. These initiatives will help us to meet our commitments to the environment and sustainability into the future.

LOCATION: SALON C

Reducing Slurry Pump Maintenance Downtime and Operating Costs at a Large Mine in Canada

Justin VandeVelde - CEO & Richard Binning, Chief Operating Officers, Toyo Pumps

In early 2014 a large Canadian owned mine approached Toyo looking for input on reducing down time and operating costs at one of their primary slurry feed stations. Existing slurry pumps were lasting three weeks. Annual operating costs exceeded \$400,000 on this one pumping application. This session shares Toyo's assessment methodology and the resulting custom built pump with a patent applied for pressurized sealing system. The pump was put on trial and ran for 26 weeks - an 800 % improvement in operating time and estimated annual operating costs reduced by a factor of six. Learn more about how the pressurized seal system helps ensure clean oil across the mechanical seal faces extending pump life and maintenance requirements dramatically.

LOCATION: CAMBIE ROOM

Managing Assets

Roop Lutchman - Leader Business Development, GHD

During this session, Roop will delve further into the asset management landscape and how things are evolving for organizations and individuals. As an expert with more than 30 years in the industry, Roop brings with him a unique perspective and insights into AM. Roop will provide guidance on the following AM topics: defining an asset and by extension the definition of asset management; establishing and managing production targets or levels of service

Asset planning is the biggest opportunity area in AM; using risk to your advantage; to maintain or not maintain - passing the buck to capital delivery; squeezing the asset value chain; and asset management is evolving - what would it look like 5 - 10 years into the future.

LOCATION: RICHMOND ROOM

12:30 - 13:30 Lunch & Exhibitor Showcase

LOCATIONS: SALON AB (LUNCH), SALON FOYER (EXHIBITOR SHOWCASE)

13:30 - 14:30 Masters Panel

Join a group of experts as they discuss the top challenges for asset management, maintenance and reliability fields.

LOCATION: SALON AB

14:45 - 15:45 The Challenges of Monitoring Mobile Mining Equipment

Ron Newman - Sales & Technical Support, PRUFTECHNIK Canada

Vibration measurement has come of age in the last 20 years. While the practice of continuous on-line monitoring of critical machines in the oil, gas, and petrochemical industries has been commonplace for several decades, it is only recently that companies who had been using intermittent data collection techniques are now embracing continuous monitoring. This session will discuss that the new horizon for continuous monitoring is mobile equipment; draglines, shovels, bucket-wheel excavators, stacker-reclaimers, heavy haul trucks, are all equally important to production and just as critical as a gas compressor. Participants will learn that, unlike stationary machinery, monitoring mobile equipment brings substantial challenges that must be addressed to ensure accurate, repeatable, and reliable data acquisition. Rapid speed and load variations are just one element of the application. The logistics of sensor mounting, cabling, network communications, and general serviceability bring unique complications to the task of monitoring these machines. Ron will discuss these obstacles and present new solutions that have the potential to bring significant reliability improvements to large mobile equipment.

LOCATION: SALON C

Integrated Asset Health Management Program

Steve Reilly - Director/CTO at Design Maintenance Systems Inc. & Curtis Chang, Reliability Specialist at Teck Resources

Learn about the who, what, where, when, how and most importantly - the why of inspections and the importance inspections play in the maintenance and reliability effort. Participants in this session will see that it truly is the low hanging fruit and should not be missed out. Teck Mining will share its handheld inspection implementation story and how they have maximized the use of their handheld inspection system.

Using Process Improvement Methodology

Lindsay Hall - Specialist, Asset Management Strategy, EPCOR Utilities Inc.

EPCOR Water Services Inc (EWSI) began development of their Asset Management Roadmap / Framework in 2011. The initial Framework was closely aligned with BSI PAS 55 (later revised to reflect ISO 55000). In this session learn how EWSI attempted a typical management system development process over a 24 month period, and why this initial approach was unsuccessful. In late 2013, a revised approach that looked at the asset management related gaps within EWSI operations and used process improvement methodology to develop procedures and tools to resolve those gaps was attempted. One of the major gaps identified was lack of asset management plans. In 2014, a pilot project focussing on the 10-Steps of asset management (SIMPLE) was completed. Learn how this pilot project allowed demonstration of the start-to-finish development of an asset management plan, and the development and field testing of several standards, procedures and tools that will become part of the asset management framework. This approach demonstrated the value of asset management, resulting in greater understanding and acceptance of asset management throughout EWSI.

LOCATION: RICHMOND ROOM

15:45 - 16:15 BREAK WITH EXHIBITORS & Author's Corner

LOCATION: SALON FOYER

16:15 - 17:15 RBD Development for Economically Challenging Times

Nicolas Castaneda - Reliability Engineer at ARMS Reliability

Reliability Block Diagrams (RBD) help organizations achieve new project goals which makes them an especially important tool under the restriction of budget and production cuts that are currently typical due to economic constraints such as low oil prices. At design stages and under new budget cuts, management should consider a few things besides meeting the projects budget like: New plant capacity expected; Plant overall reliability and availability; Operating risks; and Projected maintenance costs. Participants will see that by building an RBD the project team will have a document that will help in the decision making while supporting both in production and economic terms a decision.

LOCATION: SALON C

PM Optimization in Steel Industry Through Re-Engineering Critical Parts

Ahmed Rezika - Electrical Maintenance Manager, RajhiSteel

The evolution of Preventive Maintenance (PM) is based on analyzing equipment operating conditions, its criticality to production and maintenance cost. In this case study, participants will see the journey starts with setting safe PM schedule and parts stock to sustain production. Then root causes of failures are analysed, and plans for improvement are launched. Learn how plans-in-action should be supported by motivating everyone to the expected achievement. Ahmed will share that implementation is not the end of journey - it is where we need to evaluate whether we landed on the right solution from all aspects. He will also show that sometimes, touch ups are needed. Participants will see the real journey of RajhiSteel, started with a greenfield mini mill 8 years ago. See real examples of doing more than PM in the harsh environment of steel melting Electric Arc Furnace (EAF) and its specific equipment as Water Cooled Cables (WCC).

LOCATION: CAMBIE



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Getting the Most Out of Your CMMS

Abrar Ahmad - Asset Management Professional

This presentation discusses the 3 major elements (people, processes & technology) required to successfully enable end users of a Computerized Maintenance Management System (CMMS). Participants will learn more about: 1) Defining the scope, timelines and objectives of CMMS/EAM implementation; 2) Dealing with Master Data - defining the data and dealing with data overload; 3) How to ensure front line workers input quality data so that it can be effectively used for reliability analysis; 4) Processes (how to incorporate the technology); and 5) Roadmap (how to bring it all together and proceed).

LOCATION: RICHMOND ROOM

17:15 - 17:30 **CLOSING COMMENTS**

LOCATION: SALON AB

18:30 - 21:30 PEMAC Annual Banquet with Renowned Innovation Expert - Tom Wujec

We welcome Tom Wujec to MainTrain as our guest keynote during our Awards Banquet. Tom speaks internationally about innovation: why it matters, why it is a vital engine of economic growth (especially today), and how to foster it. A great addition to our conference! Tickets are required in advance to attend this event, and can be purchased at the registration desk.

LOCATION: SALON AB

DAY 3 - Wednesday, September 23

7:15 - 8:00 Breakfast & Exhibitor Showcase

LOCATIONS: SALON AB (BREAKFAST), SALON FOYER (EXHIBITOR SHOWCASE)

8:00 - 8:45 Welcome and Opening Keynote

Dan Pontefract, author and world renowned speaker

Special guest speaker Dan Pontefract will address participants during this morning keynote. A local to British Columbia, Dan is the author of "FLAT ARMY: Creating a Connected and Engaged Organization" and "DUAL PURPOSE: Redefining the Meaning of Work". A renowned speaker, Dan will speak about shaking it up and creating a more collaborative behavior within departments and organizations to engage employees and therefore driving better business results when he speaks about building an engaged and innovative workplace.

Sponsored by ARMS Reliability

LOCATION: SALON AB

9:00 - 10:00 Reliability and Maintainability Up-Front

Hammad Sharif - Reliability Engineer, BHP Billiton

In the face of global competition organizations must innovate to achieve their strategic goals as cost effectively as possible. In this session hear how the BHP Billiton Maintenance and Improvement team worked to validate the capability of the world's biggest greenfield potash project. Using key pillars such as: asset management plan aligned with business goals, reliability design, maintainability by design, work management implementation plan, and asset care strategy development, this team unlocked new horizons of effective development for reliability and maintainability professionals. Thinking outside the box, using common and accessible tools, while determining the best stage each method should be implemented has been key to the team's success.

LOCATION: SALON C

Using Communities of Practice to Drive Organizational Performance and Innovation

Nayef Mahgoub, CEO of Akron Engineering Consultant's Group Ltd.

People have always created communities, inside and outside of organizations. What is new is the emerging importance and formality of Communities of Practice (CoPs) as boundary-spanning units in organizations, responsible for finding and sharing best practices, stewarding knowledge, fostering innovation, and enhancing organization's image in the eyes of customers. In this session you will see how successful organizations have made a conscious effort to elevate communities from an informal approach to a more formal way of working so they have demonstrated that formal communities support and promote the institutionalization of knowledge management at an enterprise level. Nayef will highlight where CoPs have greatest relevancy to business aims, methodologies for creating and sustaining communities across the enterprise, and how to integrate CoPs with the existing organization processes and structure. He will focus on the following five practical areas of implementation to provide actionable information: 1. Strategies and structures that make CoPs successful and appropriate; 2. How to integrate CoPs with other support processes; 3. Methods to garner high impact participation and engagement in CoPs; 4. Tools and enablers for collaboration and; 5. Appropriate systems for evaluating health and results.

How Do Maintenance and Reliability Support Asset Management?

Terry Wireman - Senior Vice President at VestaPartners LLC

This presentation is designed to assist the attendees to understand the concepts and principles of asset management. It will then develop the vision for the maintenance and reliability functional areas in an asset management compliant organization. The attendees will leave the presentation with a set of guidelines to insure that their maintenance and reliability functions can properly support their company's asset management initiatives.

LOCATION: RICHMOND ROOM

10:00 - 10:20 BREAK WITH EXHIBITORS AND AUTHORS CORNER

LOCATION: SALON FOYER

10:20 - 11:20 Process Performance Optimization (PPO): Combining Reliability, Lean and Change Management

Bruce Wesner - Managing Principal, Life Cycle Engineering

Today, leaders of organizations are stretched to do more with less. They are asked to cover more areas with fewer resources, with less time and smaller budgets. Given these constraints, how can we continue to drive improvement and achieve success? We must focus tactically to drive improvement and eliminate issues that impact our ability to perform. In this session participants will see how focused improvement efforts can provide significant bottom line impacts and be sustained after the project. Learn how chronic and persistent reliability issues can be solved using a targeted Process Performance OptimizationSM (PPO) approach that integrates best practices in change management, lean and asset management. In order to effectively drive PPO, organizations should focus on this four-step approach along with weaving in an appropriate level of change management to sustain the gains.

LOCATION: SALON C

Capstone Project Winners

James Gunn, Lake Utopia Paper

The Capstone is the final project course of the Maintenance Management Professional program. Capstone Course participants, often working in teams, analyze the real-life maintenance management realities at one of their places of employment and work together to apply the relevant concepts from the MMP program to make a recommendation to advance proactive practices. The Capstone Course instructors nominate the best project proposals in their classes each year and two are chosen for the Capstone Awards. This session will feature the winning students' presentations of the just-announced Capstone Awards in the 'Business Process' and 'Technical' categories.

LOCATION: RICHMOND ROOM

Value Based Decision Making

Boudewijn Neijens - CMO at Copperleaf Techonologies

We acquire and manage assets because of the value they bring to the corporation, and we spend money and time maintaining and sustaining these assets to preserve their ability to deliver value. Yet many companies struggle with how to define, measure and communicate value. The new ISO 55000 standard underlines the importance of the concept of value, and expects us to measure value in alignment with the strategic objectives of the corporation. This session explores various commonly used methods for determining value, from simple financial methods such as Benefit-Cost Ratio or Internal Rate of Return to more elaborate multi-criteria decision making methods such as Quantized Scoring, Pairwise Comparison and Value-Based Decision Making. The benefits and drawbacks of each method are highlighted. We then explore how to build a Value Framework by identifying the value criteria that matter most to the corporation, aligning all criteria to a common evaluation scale, and using these criteria to decide what actions or investments deliver the highest value to the corporation. In doing so we will highlight the importance of timing - since value, costs and risks all change with time. We conclude with some examples of how Value Frameworks are deployed in practice in asset intensive organizations.

LOCATION: CAMBIE ROOM

11:30 - 12:30 Spillway Projects: Value of Reliability Tools from Initial Design to Operation

Frank Thede - Principal Reliability Engineer, Acclaro Management Corporation

Roselia Moreno - Manager, Reliability Engineering, Acclaro Management Corporation

Hydro facilities rely on spillway gates to protect the dam integrity by releasing water when too much water is entering the reservoir. Spillway gates are critical flow discharge components in the dam design and need to be available to operate on demand. This session explores the learnings from BC Hydro projects, over an 8 year period using reliability methods for project planning and spillway system equipment analysis for improvement projects and for new spillway systems. See how Spillway projects can benefit by including reliability methods in their pre-detailed design phase. Early deployment of reliability analysis allows for optioneering work and the development of suitable design alternatives. Reliability Block Diagrams (RBD) can be applied to improve design and to evaluate alternative design configurations.

LOCATION: CAMBIE ROOM

Cascading Leading & Lagging Maintenance & Reliability Metrics

Paul Daoust - Principal Reliability Engineer, TransAlta

How do you develop a value stream of cascading leading and lagging metrics and targets that link a maintenance & reliability organization's behaviors and practices with improved business results? In this session, Paul will explore leading and lagging maintenance & reliability metrics and how they fit together within an achievement model to set the bar higher as your organization matures.

LOCATION: RICHMOND ROOM

Nova Scotia Power Asset Management Journey

Warren Rodgers - Senior Engineer, Asset Managemen Office, Nova Scotia Power

Nova Scotia Power owns, operates and maintains the majority of its power production. This is in the form of thermal steam units, combustion turbines, hydro, tidal, wind and biomass. The age and complexity of the power production facilities and equipment ranges from 90 years in some hydro stations, 40 years in some steam turbines, 40 for many combustion turbines and as new as 3 months old in our wind turbines. Like any business, the stakeholders expect cost efficient and reliable electricity supply. Technical people expect to understand the risks, operators and maintainers expect safe and trustworthy equipment. A need to run leaner and more profitably is a challenge that a strong asset management program can support. This presentation will highlight NSPI's approach to building an asset management program in our power generation fleet. We consciously chose innovative technologies and techniques to get results and avoid the pitfalls when following the process "by the book". Finally participants will discuss what we learned along the way and will discuss how to improve as we move forward in the never ending journey of asset management.

LOCATION: SALON C

12:30 - 13:30 Lunch & Exhibitor Showcase

LOCATIONS: SALON AB (LUNCH), SALON FOYER (EXHIBITOR SHOWCASE)

13:30 - 14:30 Bear Pit

In this general open forum we invite you to share topics and questions of asset management, maintenance and reliability that are relevant to you and your organization. Share and learn with other conference participants how they are managing the same issue, as well as gain valuable insight from our various experts in the audience.

LOCATION: SALON AB

14:45 - 15:45 Replace or Maintain: The Vancouver Ship Unloader Story

Chris Roberts - Reliability Engineer, Acuren

For many organizations the decision to maintain or replace an asset is of vital importance to capital budgets and investment decisions. During this session participants will learn how an organization that owned a large ship unloader in North Vancouver decided to "Replace or Maintain?" With the need to reduce the overall cost of operation, Acuren assisted the organization through the use of many condition assessment techniques guiding the organization to make an important decision. Participants will learn about the technologies utilized during this project including: visual inspection, magnetic particle, ultrasonic thickness, airborne ultrasound, infrared, vibration, strain, and lubricant spectrography in tandem with engineering analysis and review. Chris will guide participants through the decision process to replace or maintain, and conclude with the decision that the ship loader made for its organization.

Concentrated on Effective Change - Improved Maintenance Approach

Bjarni Isleifsson - Manager, PwC

Leonard Middleton, Manager, PwC and Vice President, PEMAC

Listen as Bjarni and Leonard shares the experience of a base metal miner who produces metal concentrates and how it improved its maintenance approach. The organization employs a skilled labour workforce and use advanced technology in their concentrator operation. One of its primary operations was advancing towards the economic end of its mine life and the company recognized the need to reduce certain aspects of their maintenance activities, but without compromising the safety or production capabilities of the operation. The focus for this project was on day-to-day and long-term preventive maintenance activities within the concentrator. This was a priority area due to pending attrition from retirements, and challenges related to skills availability. Participants will hear how the organization had performed an internal review of a majority of service areas in order to reduce their maintenance hours and had already improved from 28,000 annual maintenance hours to 19,000 annual maintenance hours as a result of their internal efforts but needed to find further efficiencies.

LOCATION: RICHMOND ROOM

Implementing Integrated Enterprise Asset Management System for our Nation's Capital - A 5 Year Journey

Devesh Shah - Program Manager, Asset Management, City of Ottawa

Devesh will share the City of Ottawa's journey to implement a state-of-the-art, leading edge technology solution for enterprise asset management for critical municipal infrastructure. The 5-year journey, from concept to commissioning, will share the city's successes, challenges and lessons learned through the implementation of IBM's Maximo and replacement of legacy application. The audience will see a demo of the live system and learn from Ottawa's experience of business transformation and customer service improvement by integrating asset and work management systems with other corporate applications including 3-1-1, Geographical Information System, Records Management and Mobile applications. Participants will also discover the change management strategies and process improvements to develop consistency, reduce duplication of work, streamline asset management processes, improve planning and scheduling processes, provide better access to data and more opportunities to measure and forecast, and support stronger, more informed maintenance management and decision making.

LOCATION: SALON C

15:45 - 16:15 BREAK WITH EXHIBITOR SHOWCASE & AUTHORS CORNER (last chance to visit showcase)

LOCATION: SALON FOYER

16:15 - 17:15 INVISTAs Battle Plans

Suzy Hitchcock - Executive Director, Global Strategy & Advocacy at the International Council for Machinery Lubrication (ICML)

The INVISTA Victoria facility had the reputation of being proficient at maintenance for many years, going back to its days as a DuPont plant. It was an early proponent and adopter of predictive technologies, extensively used preventive maintenance tactics and involved operators in basic lubrication. And, the maintenance crew could quickly bring out-of-service equipment back to life. When Koch Industries purchased INVISTA and stated that future success would depend on developing and maintaining reliable plants, some in Victoria wondered to what degree the bar could be raised. A reliability group was eventually formed at this plant, which spawned focused programs for mechanical categories such as fixed equipment and rotating equipment. But when the anticipated results were slow to materialize, the team reached some strong conclusions: 1) Sheer manpower had been driving reliability. 2) A sizeable percentage of PM tasks added little to no value. 3) "We fix it fast" wasn't a motto to promote and perhaps most importantly ... 4) The mechanical reliability programs made one assumption - that the correct lubricant was used and it was clean per OEM specification. That was just an assumption and nothing was addressing it. This case study will share the steps taken by INVISTA that not only led them to receive ICML'S Battle Award for Excellence in Lubrication, but to become Koch's internal standards for operations and maintenance managers at company facilities around the world in their journey to improved reliability.

LOCATION: RICHMOND ROOM

Developing People - PEMAC PD Programs and How They Stack Up Internationally

Cindy Snedden, Executive Director of PEMAC

This session will provide an overview of the content and delivery of the PEMAC MMP (Maintenance Management Professional) and AMP (Asset Management Professional) education and certification programs and compare them with similar initiatives of other non profit maintenance, reliability and asset management focussed associations around the world.

LOCATION: CAMBIE ROOM



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How Reliability Helps Win New Business

Nicole Ponsonby - Reliability Specialist, The Asset Performance Group

Is your production process not achieving desired production rates? Do you understand where the trouble areas in your production process are now and where they might be in the future? Are you going through major upgrades to your process? This session demonstrates the business value of modeling your plant, production process or manufacturing facility using Reliability, Availability and Maintainability (RAM) analysis techniques before investing large amount of time and money on equipment maintenance or capital improvements to achieve production rates that may in fact be beyond their capabilities. A RAM Analysis predicts the characteristic of a plant, production process or manufacturing facility. RAM looks at the reliability and maintainability of equipment within a process to determine the overall predicted process availability over time. In essence, it helps organization identify reliability and maintainability bottlenecks, validate process' production capacity and increase operational confidence. The results and findings from these analyses pinpoint key areas for improvement which can lead to new business opportunities. In this presentation, learn how APG helped an pipeline transportation company utilize reliability as a tool to secure new business.

LOCATION: SALON C

17:15 - 17:30 **CLOSING COMMENTS**

LOCATION: SALON AB

18:30 - 20:30 PEMAC General Meeting

All are invited to the PEMAC Members' meeting for an association update and to offer input to future association development.

LOCATION: SALON AR

18:30 - 21:30 ICML Exam

The ICML Exam will be available to take during the conference. Pre-registration of the exam is required. To register for the exam, please submit your application form directly with ICML. Visit the ICML website for more information about the exam, as well as the Council and its Certification Program.

LOCATION: RICHMOND ROOM

CMRP Exam

PEMAC is pleased to be hosting the Certified Maintenance & Reliability Professional (CMRP) exam at this year's MainTrain Conference. Managed by the Society for Maintenance and Reliability Professionals (SMRP) the CMRP is accredited by the American National Standards Institute (ANSI), which follows ISO standards for its accreditation and processes. Examining more than just textbook information, the CMRP is a thorough examination of a broader scope of expertise measured against a universal standard. It was developed to assess professionals' aptitude within the five (5) pillars of the Maintenance and Reliability Body of Knowledge: Business Management, Equipment Reliability, Manufacturing Process Reliability, Organization and Leadership, and Work Management. Click here for more information about SMRP and the exam. Click here to log in and register for the exam being held on September 23.

LOCATION: BRIDGEPORT ROOM

Certified Asset Management Assessor Exam

MainTrain 2015 participants have the opportunity to participate in this exam. The CAMA Exam was developed by leading not-for-profit asset management organizations* and has been verified through rigorous technical and psychometric testing. This 2 hour exam complies with the GFMAM's Competency Specification for an ISO 55001 Asset Management Auditor/Assessor, ensuring that successful applicants have the minimum required knowledge to be an ISO 55001 assessor. This means compliance with:

- ISO 55001 Asset management Management systems Requirements (core requirements and knowledge);
- ISO 17021-5 -- Conformity assessment -- Requirements for bodies providing audit and certification of management systems -- Part 5: Competence requirements for auditing and certification of asset management systems; and
- ISO 19011 -- Guidelines for auditing management systems.

Advance registration for the exam is required and available to up to 20 participants. Those who register will receive more detailed information about the exam and suggestions for how to prepare. Click here to be directed to the WPiAM website where you can register for this exam

* World Partners in Asset Management is a new joint venture with founding partners: Asset Management Council (Australia), PEMAC (Canada), SMRP (US), ABRAMAN (Brazil) and IFRAMI (France).



DAY 4 - Thursday, September 24

7:15 - 8:00 BREAKFAST

LOCATION: SALON AB

8:00 - 8:45 Welcome and Opening Keynote - A Global Body of Knowledge for Maintenance and Asset Management

Deryk Anderson, Asset Management Council in Australia

A profession is defined by its Body of Knowledge. The distinction of a profession is dependent on clarity and consistency of its theory and practice. The fields of Maintenance and Asset Management currently lack a global collated, critiqued and accepted Body of Knowledge. This presentation explores the concept of a Body of Knowledge for Maintenance and Asset Management. The history of the development initiative is described. The fundamental constituents of a body of knowledge are described.

LOCATION: SALON AB

WORKSHOPS 9:00 - 10:00

Improving Your Cross Cultural Communication for the Workplace

Marie Gervais - CEO, Shift Management

Your workforce and your customers are increasingly global. How effective is your crosscultural communication? Learn how to turn fear of difference into interest and mindfulness.
To be more effective, intercultural communicators with both employees and customers,
consider various questioning strategies and checks for understanding. In this paper we will
cover basic cultural differences affect the workplace, how you can be aware of your own
cultural biases and how to communicate more effectively across cultural difference. You will
learn:

- Basic cultural themes affecting work attitudes, work style and outcomes
- How to phrase questions so you get answers you can understand and use
- Techniques for ensuring understanding and capacity to follow directions when English is not a first language
- Mindful communication clues
- How to discover and use various cultural conflict resolution styles effectively

LOCATION: SALON C

Asset Management Fundamentals

Deryk Anderson - Asset Management Council in Australia

This one-day course offers a thorough overview of asset management and how effective asset management provides benefits to the organization. Participants will be able to:

- Define asset management within the context of ISO 5500x suite, the Asset Management Landscape and AMBoK
- Identify the principles that underpin asset management
- Identify available asset management tools and techniques that are applicable within organizational context
- Identify opportunities to apply these learnings to improve individual and organisational performance.

LOCATION: RICHMOND ROOM

GCT Deltaport Facility Tour

GCT Deltaport, Canada's flagship container terminal, located in Port Metro Vancouver, is an 85-hectare (210-acre) facility with three contiguous berths totaling 1,100 metres (3,609 feet). The terminal is designed to handle the largest transpacific container vessels in service and features dual-hoist gantry cranes—the first in the Americas—in its fleet of ten high-speed, super post-Panamax cranes. The facility employs state-of-the-art computer systems and has an on-dock intermodal rail yard with eight tracks totaling 8,534 metres (28,000 feet). Participate on this offsite tour and receive a guided tour of the Deltaport property and learn how the facility are operates. We will depart by bus from the hotel following the morning keynote, drive directly to the terminal and have a guide tour while on the bus. Following the bus tour will we have a short presentation by GCT Deltaport, and enjoy a boxed lunch before returning to the hotel for the closing presentation. Preregistration is required for this tour.

LOCATION: DEPART HOTEL LOBBY AT 9:00 AM

Canada Post Sorting Facility Tour

Canada Post's Pacific Processing Centre opened for business on February 23, 2014. The facility is strategically located at the Vancouver International Airport and is a vital link between Canada, the United States and Asia-Pacific Rim countries. The facility has some of the largest, fastest and most efficient mail-processing and package-sorting equipment on the continent. Participants are invited to tour this state of the art Pacific Processing Centre (PPC) that measures almost 460 meters long by almost 145 meters wide, covering an area of close to 66,000 square meters on 17 hectares of land. See behind the scenes, how the facility is able to process an average of 4 million pieces of mail each day. Highlights of the tour include: shipping sorter observation area, packet sorters, edger facer machines plus more. Participants will be bused to the processing centre following the morning keynote, participate in the tour, along with a brief presentation. Boxed lunch is included. The tour bus will bring participants back to the hotel in time for the closing presentation. Preregistration for the tour is required.

LOCATION: DEPART HOTEL LOBBY AT 9:00 AM



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MMP Module 1 - An Integrated Strategy for Maintenance Management - Day 2

(continued from Day 1)

Al Johnson - Senior Asset Management Consultant, Clearpass Inc. Leonardn Middleton - Manager, PwC

PEMAC's Maintenance Management Professional (MMP) program provides training and accreditation to those aspiring to, or already in, maintenance management or supervisory positions. Certified MMPs are qualified to provide cost effective management of a business's physical assets. There are eight modules to the MMP Certificate program. Module 1 is being offered as a workshop at MainTrain over a two day period. This is day two of a two day workshop. Day one is scheduled on Monday, September 21.

Based on the course text, Uptime, Module 1 develops the framework for thinking about a strategic approach to maintenance management that is integrated with the business. Drawing on the elements presented in the "Maintenance Excellence Pyramid" of Uptime, participants in Module 1 will learn how strategy, people, basic care, materials management, performance management, work management, support systems, and tools such as RCM (Reliability Centered Maintenance) and RCFA (Root Cause Failure Analysis) can work together to build a culture of excellence.

There is an additional fee for materials to participate in this course. Pre-registration is required.

LOCATION: BRIDGEPORT ROOM

10:00 - 10:15 BREAK

10:15 - 12:00 Improving Your Cross Cultural Communication for the Workplace (con't)

Marie Gervais - CEO, Shift Management

LOCATION: SALON C

Asset Management Fundamentals Module (con't)

Deryk Anderson, Asset Management Council Australia

LOCATION: RICHMOND ROOM

GCT Deltaport Facility Tour (con't)

LOCATION: OFFSITE

Canada Post Sorting Facility Tour (con't)

LOCATION: OFFSITE

MMP Module 1 - An Integrated Strategy for Maintenance Management - Day 2 (con't)

(continued from Day 1)

Al Johnson - Senior Asset Management Consultant, Clearpass Inc. Leonard Middleton - Manager, PwC

LOCATION: BRIDGEPORT ROOM

12:00 - 13:00 LUNCH

LOCATION: SALON AB (TOURS HAVE BOXED LUNCH OFFSITE)

13:00 - 15:00 Improving Your Cross Cultural Communication for the Workplace (con't)

Marie Gervais - CEO, Shift Management

LOCATION: SALON C

Asset Management Fundamentals Module (con't)

Deryk Anderson, Asset Management Council Australia

LOCATION: RICHMOND ROOM

GCT Deltaport Facility Tour (con't)

LOCATION: OFFSITE

Canada Post Sorting Facility Tour (con't)

LOCATION: OFFSITE

MMP Module 1 - An Integrated Strategy for Maintenance Management - Day 2 (con't)

(continued from Day 1)

Al Johnson - Senior Asset Management Consultant, Clearpass Inc. Leonard Middleton - Manager, PwC

LOCATION: BRIDGEPORT ROOM

15:00 - 15:15 CLOSING COMMENTS

LOCATION: SALON AB



Cameco is a strong believer in Operational Excellence. We are proud to support delegates in their similar journey.

^{*}Things happen and plans change. PEMAC reserves the right to make changes to the conference schedule right up until the day of the event.



The AMP Certificate program is designed to build organizational capacity for excellence in Asset Management by developing relevant knowledge and skills across disciplines for those responsible for Asset Management decision-making and design of the Asset Management system.

The program is offered exclusively at Humber College, in association with PEMAC.

www.humber.ca/continuingeducation/program/ asset-management-professional-certificate

Maintenance Management Professional (MMP) Certification



The MMP program provides training and certification to those aspiring to, or already in, maintenance management or supervisory positions enabling them to align their work with the Asset Management strategies and plans of the organization.

For more information about the program that is offered at 14 colleges, universities and technical institutes across Canada, visit: www.pemac.org/certification



PEMAC Acknowledgements

On behalf of the Board of Directors and the conference attendees we would like to extend a big thank you to the MainTrain 2015 planning committee, PEMAC staff and all of the on-site member volunteers that have made this year's conference a success. Your time, effort and careful attention to making this a truly successful event shines though.

Committee Chair:

Sridhar Ramakrishnan, Suncor Energy Inc.

Committee Members:

Gregg Bentley, Armtec Infrastructure
Jason Blank, Filtramax Inc.
Brent Corey, Kruger Products
Nigel D'Souza, Ontario Clean Water Agency

Denis Grohol, FreshPoint Virginia Liu, University of British Columbia Hospital

Boudewijn Neijens, Copperleaf Technologies Cindy Snedden, PEMAC

On-site Support Staff:

Steve Burrows, PEMAC Education and Professional Development Program Manager Nicolle Guillen, PEMAC Events Coordinator Melanie Mangion, PEMAC Head Office

Tell Us How We Did

Claire Russell, PEMAC Head Office

We hope that you enjoyed the conference. Take a moment to let us know how we did by completing our online feedback survey. Visit this website: www.surveymonkey.com/r/MainTrain2015Feedback. Or scan the QR code shown here.







Looking Ahead *MainTrain 2016*

MainTrain 2016 is coming to Toronto!

MainTrain 2016 will be held in cosmopolitan Toronto, Ontario! We are very excited to be hosting PEMAC's annual conference in Toronto once again. This time we'll be hosting the four day conference just north west of the city, at a very accessible venue no matter if you're traveling into the city, or already there.

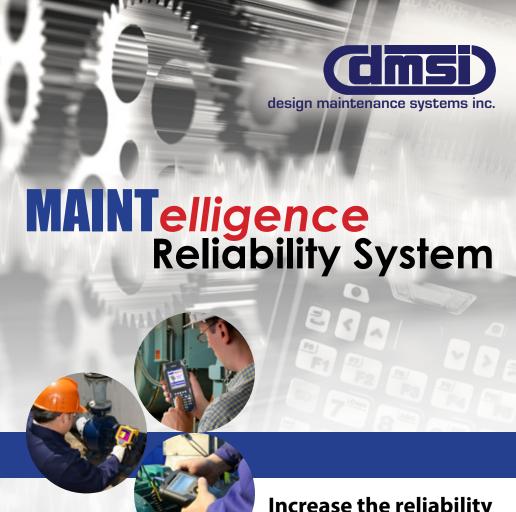
When: September 19 to 22, 2016

Where: Sheraton Toronto Airport Hotel & Conference Centre

Do not miss the chance to join us again, meet with participants from across the country and around the world, and share all of your maintenance, reliability and asset management insight.

More details about the 2016 conference will be available shortly at www.maintrain.ca. For more information contact Nicolle Guillen at events@pemac.org or 1-877-525-7555, ext. 4.





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