

ROCKY MOUNTAIN MASTER MECHANICS ASSOCIATION PLANT EQUIPMENT MEETING NOTES

Location: **Holiday Inn**

Rapid City SD

Reservations: 605-348-4000

A block of rooms has been reserved for April 24th 25th & 26th. Please advise that you are with the RMMMA group to receive these rates.

Web site - <http://rmmma.org>

Date: April 25th 26th 2013

Next meeting: December 5th & 6th at the Rapid City Holiday Inn

Thursday: Break & Refreshments

Sponsored by **Dakota Fluid Power**

Thursday Lunch -

Sponsored by **Komatsu Equipment**

Friday Breaks & Refreshments

Sponsored by **L&M Radiator**

Lanyards

Sponsored by **Dakota Fluid Power**

Wine@ Banquet

Sponsored by **HE- Crown**

Thursday April 25th

6:00am - 7:45am **Registration. Dues are \$40.00 per member**

7:45am - 8:30am **Introduction of members and business session of meeting.
Elected new co-chairman for the mobile side – Bill Ruff**

8:45am - 9:45am **Major Medals Service**
Web site - www.majormetalservice.com
Kodi Majors - ph. 307.685.3301
E-mail - kodim@majormetalservice.com
Will Morgan – ph. 307.685.3301
E-mail majormetalservice@hotmail.com

10:00am - 11:00am **Safety Talk and Open discussion**

Safety Share – be careful the low tire meters in the new cars may not be correct.

- Coal on the car sills.
 - Using mud flaps on the load out chute, not working to well, any better ideas?
- MSHA – inspections – is there a mining association to lobby for better explained rules.
 - They are working on making sure the employees know their ground control plan.
- What is everyone using for needing fall protection when working on equipment?
 - Cloud Peak has gone to building platforms or buying platforms to install on the equipment and put on tie off points.
 - To work on hoppers or roofs some are using cable from support to support to tie off your fall protection.
- Ground testing for roll up electrical cords
- Using a fresh eyes program to check for compliance issues, using people from different departments and mines.
- Using UHMW for wear liner (TIEBAR) bolt on the outside of the chute then put skirting on the outside of that.
- Also use rope to seal dust.

11:15am - 12:00pm

CONTROL SYSTEMS TECHNOLOGY

Web site - www.controlsystems.com.au

Ian Burrell – ph. (+61 2) 8708-0200

E-mail iburrel@controlsystems.com.au

High Capacity Belt Scales

Q - The difference between the 4 idler and 8 idler?

A - It relates to the tension of the belt and the weight of the material, we would have to engineer

Q – Can you install these on an incline?

A – Absolutely

Q – What is the weight of the calibration weight?

A – Up to a ton each pending on the engineering

1:00pm - 1:45 pm

Dust Control Technology

Web site - www.dustboss.com

Aaron Valencic - Ph. 309.693.8600

E-mail aaronv@dustboss.com

Utilizing Atomized Mist for Dust Suppression (Dust Boss)

➤ Serious health concerns

➤ Additional health concerns

Q – How wet is the fog?

A – 39 gallons / minute

Q – How cold can it be before these fail?

A – We have had units to 15 below

Q – How clean does the water need to be?

A – As clean as you can, potable water if possible

Q – Does it pivot?

A – About a degree a second, set by a touch screen

Q – How loud is it?

A – 115 decibels at the unit but tapers off fast

Q – How much are they?

A – 20 to 60 thousand pending on the size, we do have a rental service.

Q – On the small unit what is the power supply?

A – 480 volt 3 phase

Q – How wide is the plume?

A – Depends on the wind, and distance

Q – Have you tried to use these inside a chute?

A – I believe we have on a telescoping chute

2:00pm - 3:00pm

Interstate – Ph. 307.682.8596

Benetech – Ph. 630.605.1300

Web site - www.benetechusa.com

Pete Zinecker - Ph. 630.605.6402

E-mail zineckerp@benetechusa.com

Chute Design and Material Flow Benefits

➤ Dust collectors

➤ Transfer systems

➤ Dust suppression systems

➤ Wash-down systems

➤ Dust containment

Q – If you have to re-line your chutes how do you do it?

A – Cylinders can be rotated elbows we will build a liner replacement.

3:15pm - 4:00pm Philadelphia Gear
Bret Baldwin - Ph. 719.233.5605
E-mail b.baldwin@philagear.com

Reducers General Understanding Maintenance

Q – What the difference between regular vs. cyclonical?
A – Cyclonical is a throw away gear box, a real pain to rebuild.

4:00pm Adjourn

6:00pm Social Hour

7:00pm Dinner

Please take the time to thank the Suppliers group, as they have provided our social hour, dinner.

Friday, April 26th 2013

8:00am - 9:00am Fenner Dunlop - Ph. 307.682.2529
Web site - www.fennerdunlopamericas.com
Ken Schweitzer - Territory Sales Mgr. - Ph. 307.660.7028
E-mail ken.schweitzer@fennerdunlop.com
Kevin Marler - Territory Sales Mgr. - Ph. 307.670.2611
E-mail kevin.marler@fennerdunlop.com
Classic Conveyor Components - Ph. 724.459.5261
Web site - www.classicconveyor.com
John Ramsden - Engineering Product Mgr. - Ph. 724.801.0790
E-mail john.ramsden@fennerdunlop.com

Fenner Dunlop Conveyor Products

- Roll shop
- Idlers
- Q – Are your idlers compatible with other frames?
- A – Yes we can retrofit to any frame.
- Structure
- Load zone Support
- Q – Do you install a lot of slider beds
- A – Not in the basin usually lighter application.
- Q – What's the maximum speed of belt on the slider beds?
- A – 600 – 700 fpm
- Q – What's the lifespan of the slider bars?
- A – Depend on the load.
- Q – Are your roller beds easy to maintain?
- A – Yes the wings bolt on from the outside
- Cleaners (Tech Line Series Premium Cleaner)
- Q – Does anyone make a cleaner for paddle belts?
- A – An air knife might do the job.
- Q – With the cantilevered system if the cleaner flips would it hit the belt?
- A – No, the installation is far enough away not to hit the belt. But with proper maintenance this should never be a problem.

9:15am - 10:00am

Oil Analysis lab - Ph. 509.535.9791

Web site - www.oillab.com

Lane Crandall - Ph. 509.981.0188

E-mail LaneC@oillab.com

Condition Monitoring Using Oil Analysis on Fixed Plant Equipment

Q – What causes copper to increase in the sample?

A – If you're running a cooler you could be getting copper leaching.

➤ Gearboxes

➤ Hydraulic systems

➤ Motor Bearings

➤ Compressors

➤ Greased components

Q – Do you see when someone changes oil to non-compatible oil?

A – You bet it can cause a lot of difference in your oil analysis

Q – Is there a guideline for changing oil?

A – No guideline but you can ask your oil manufacture for a compatibility report

Q – How to extend component life?

A – Keep clean, dry, cool, and monitor.

Q – How big of a sample of grease do you need?

A – About a tablespoon the more the better.

Q – We changed to Conoco premium in our compressor we are noticing foam for a few minutes.

A – We can run the foam test.

Q – Do you do oil analysis on fluid clutches?

A – We can do an analysis on your lawn mower. Yes

10:15am - 11:00am

Interstate – Ph. 307.682.8596

Raring Corp. - Ph. 360.892.1659

Web www.raringcorp.com

Chris Brown - Manager Customer Services - Ph. 360.831.1624

E-mail cbrown@raringcorp.com

PRB dust control technology update

Q – What kind of different products do these nozzles work with?

A – When we add moisture it is only a few hundreds of a percent.

Q – How does the system determine when to run?

A – Let it key off of the belt scale, or any system with a point on a PLC (VFD, Feeder, Indicator)

Q – On a stilling shed how many nozzles should be in there?

A – Around 90 nozzles using 7 cfm of air and .10 gpm of water.

Q – How come you have different size nozzles and not just one?

A – Pending on your application smaller system needs smaller nozzles

Remember to have your notes ready for the “open meeting” sessions. Too many people have problems that can be addressed, but don't recall them at the meetings.

Please RSVP if you plan to attend. E-mail to tony.geffre@cldpk.com

Tony Geffre 307-685-4586 cell Phone 307-660-1871