OVERVIEW OF HEALTH IN MINING INDUSTRY
PRESENTATION TO LIMPOPO TRIPARTITE FORUM

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Head: Health Department
Chamber of Mines SA
23 June 2015
Outline

Chamber of Mines

- Occupational health
- TB/HIV advocacy
- Compensation
- Conclusion
South African COM

Mission:
To play a leadership role in enabling the mining sector to get back onto the front foot with the specific long term purpose of creating an enabling environment for doubling real mining investment by 2030.
South African COM

- Around 70 employees
- R100 million budget
Health Department

- Key function:
  - advocacy and lobbying on health matters
- Areas of action:

Mandated by:
- Health Policy Committee
- Group Environmental Engineers
Outline

- Chamber of Mines
- Occupational health
- TB/HIV advocacy
- Compensation
- Conclusion
## Performance on occupational diseases

### Chart Description:
- The chart illustrates the performance on occupational diseases from 2008 to 2013.
- The data is represented by bars for each year, showing the number of cases for different occupational diseases:
  - Silicosis
  - PTB
  - NIHL
  - CWP
  - Asbestos
  - siTB
  - Other
  - Total

### Data Table:

<table>
<thead>
<tr>
<th>Year</th>
<th>Silicosis</th>
<th>PTB</th>
<th>NIHL</th>
<th>CWP</th>
<th>Asbestos</th>
<th>siTB</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>1778</td>
<td>4639</td>
<td>1994</td>
<td>87</td>
<td>37</td>
<td>995</td>
<td>814</td>
<td>10344</td>
</tr>
<tr>
<td>2009</td>
<td>1694</td>
<td>4468</td>
<td>1280</td>
<td>14</td>
<td>31</td>
<td>207</td>
<td>346</td>
<td>8040</td>
</tr>
<tr>
<td>2010</td>
<td>1742</td>
<td>4452</td>
<td>1212</td>
<td>80</td>
<td>29</td>
<td>249</td>
<td>406</td>
<td>8170</td>
</tr>
<tr>
<td>2011</td>
<td>1286</td>
<td>3070</td>
<td>1229</td>
<td>91</td>
<td>11</td>
<td>555</td>
<td>202</td>
<td>6444</td>
</tr>
<tr>
<td>2012</td>
<td>1420</td>
<td>2838</td>
<td>1075</td>
<td>86</td>
<td>19</td>
<td>126</td>
<td>438</td>
<td>6002</td>
</tr>
<tr>
<td>2013</td>
<td>1430</td>
<td>3255</td>
<td>1389</td>
<td>125</td>
<td>10</td>
<td>149</td>
<td>452</td>
<td>6810</td>
</tr>
</tbody>
</table>

### Observations:
- There is a significant decrease in the total number of cases from 2008 to 2013, with a drop of 34% in 2013 compared to 2008.
- The chart highlights the percentage decrease for different categories:
  - 20% decrease in PTB
  - 30% decrease in Silicosis
  - 30% increase in CWP
  - 63% decrease in Asbestos
  - 85% decrease in siTB
  - 44% decrease in Other

This data indicates a positive trend in minimizing occupational diseases over the years.
New occupational health milestones

Dust

By 2024, 95% of all exposure measurement results will be below -0.05mg/m³

No new cases of silicosis in novice individuals that joined industry in 2009
New occupational health milestones

Noise induced hearing loss

By December 2024, total operational or process noise emitted by equipment must not exceed 107dB(A)
Review in 2016

By December 2016, no employee’s Standard Threshold Shift (STS) will exceed 25dB from baseline
New occupational health milestones

TB and HIV and AIDS

By December 2024, TB incidence rate should be at or below the national incidence rate.

100% of employees should be offered HIV counselling and testing annually and eligible employees linked to ART programme.
Approach to occupational health

Prevention of exposures

**Tripartite (MHSC)**
- 2024 milestones
- Guidelines
- Research

**Employers (Chamber)**
- Health Department
- MOSH Learning Hub

**Company level**
- Dust/noise suppression
- Management of TB, HIV
# Summit Action Plan

<table>
<thead>
<tr>
<th>OBJECTIVE</th>
<th>INITIATIVE</th>
<th>PROPOSED DELIVERY OF INITIATIVE</th>
</tr>
</thead>
</table>
| Elimination of:  
- Silicosis  
- Pneumoconiosis  
- Coal Workers Pneumoconiosis | Implementing Airborne Pollutants Guideline | Develop the operations manual |
| | | Conduct training workshops on airborne pollutants |
| | | Incorporate the Airborne Guideline into the mine COP |
| Limit the dust concentration | Identify leading practices  
(platinum, gold, coal and other sectors within the mining industry) | Service provider and Task team to collate the research conducted (employees exceeded recommended exposure period) |
<p>| Limit the period of exposure | | Development of the terms of reference |
| | | Follow up on the SIMRAC Project |
| | | Follow up on the quick wins projects |
| | | Follow up on the MOSH leading practices |
| Implement/adoption of the real time monitoring (2016/2017). Contribute to SIMRAC needs analysis | | Printing of the silicosis booklets (Mine Management/SHE Reps/Occupational practitioner) |
| | | Promotional material (silicosis booklets for employees) at workshops |
| | | Develop and print material for coal and platinum sectors |
| Training and awareness | | |</p>
<table>
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<th>PROPOSED DELIVERY OF INITIATIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elimination of Noise Induced Hearing Loss</td>
<td>Quietening of equipment</td>
<td>Survey of the number of equipment emitting noise and the noise levels thereof</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Identify the leading practices</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Promote 'Buy Quiet' Initiative</td>
</tr>
<tr>
<td>Implementation of the Noise Guideline</td>
<td>Review and develop an operations manual</td>
<td></td>
</tr>
<tr>
<td>Implementation of the Standard Threshold Shift Principle/System</td>
<td>Develop a guidance note on the process to be followed (baseline for the milestones)</td>
<td>Develop a guidance note on the measurement, implementation and management of STS</td>
</tr>
</tbody>
</table>
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<tbody>
<tr>
<td>Reduction and prevention of TB, HIV and AIDS infections</td>
<td>Screen 100% of employees for TB</td>
<td>DMR 164 Reports</td>
</tr>
</tbody>
</table>
Guidelines from MHSC

2013/2014

• Guidelines on Code of Practice for Mineworkers Incapacity due to Ill Health
• Guidance Note with regard to TB in the South African Mining Industry
• Guidance on Code of Practice for Fitness to Perform Work on a Mine
• Guidelines on Mandatory Code of Practice for Risk Based Emergency Care on a Mine
• Guidelines on Mandatory Code of Practice on Roles and Responsibilities for Occupational Health Practitioners
• Guidelines for Compilation of Mandatory Code of Practice for Risk Based Fatigue Management at Mines

2014/2015

• Guidance note for lung function testing
Chamber initiatives: Health Unit

- CEO Elimination of Fatalities Task Team
  - review of milestones
  - other health topics e.g. medical incapacity
- TB Reviews: 2011 - 2013
- Chamber position on TB and contractors
Chamber initiatives: MOSH Learning Hub

Promote the adoption of leading practices

**Dust team**
- Fogger
- Footwall and sidewall treatment
- Continuous dust monitoring

**Noise team**
- Electric drill
- HPD Selection tool
- “Buy Quiet”
Contentious occupational health issues

- Fitness to work
- Incapacity due to ill-health
Outline

Chamber of Mines

Occupational health

TB/HIV advocacy

Compensation

Conclusion
The need to act

- TB incidence in mining higher than normal SA population rate

![Estimated TB Incidence Rate](chart)

<table>
<thead>
<tr>
<th>Significant risks for TB in mining</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable</td>
</tr>
<tr>
<td>&gt; 40 years</td>
</tr>
<tr>
<td>Previous TB</td>
</tr>
<tr>
<td>Silicosis</td>
</tr>
</tbody>
</table>

Presentation to Limpopo Tripartite Forum 23 June 2015
SADC Declaration on TB in the Mines

• Ministerial meeting
• Global Fund commitment of $30 million
• Regional concept note submitted in January 2015 and approved by Global Fund
Compensation

• Legacy of an inadequate statute (ODMWA)
• Mankayi judgement in 2011
• Chamber response through OLD Steering Committee and working groups
• Announcement by gold companies
• Work with Department of Health on Ex-Mineworker Project and strengthening the commissioner’s office
Outline

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Conclusion

• Although health of mineworkers has improved, much still needs to be done
• Collaboration is key if we are to make a difference
• Tripartite forums are a good example of collaboration, cooperation and sharing of leading practices