

Foundries Industry Advisory Committee

Minutes of the 12th Meeting of the Foundries Industry Advisory Committee held on Wednesday 30th September 2009 at HSE's Offices at 1, Hagley Road, Birmingham, B16 8HS

Present	Representing
Mr D Bartlett	W H Rowe
Mr C Mills	CTI
Mr G Morley	CTI
Mr J Parker	Cast Metals Federation
Mr D Oddy	Federal Mogul
Mrs P Murrell	ICME
Mr B Hudspith	Unite
Mr N Talbot	Terrill Bros (Founders) Ltd
Mr J McAlinden	HSE – Carcinogens Programme
Mrs S Polack	HSE – Dust Initiative Project
Mr C Davy	HSE – Occupational Hygiene Unit
Mrs N Day	HSL
Mr M Bone	HSE – Manufacturing Sector
Dr P Smith	HSE - Chair

Apologies	Representing
Mr J Easton	Unite
Mr M Shenton	James W Shenton Ltd
Mr K Gilroy	Doncaster Group
Mr R Turley	Roger Turley Engineering Consultancy

Number	Item	Details	Action
Item 1 – Introductions and apologies			
1.	Introductions	The Chair welcomed Michael Bone from HSE.	
	Apologies	Apologies were received from Jim Easton, Martin Shenton and Kevin Gilroy	
Item 2 - Minutes of last meeting and matters arising (<i>11th February 2009 minutes - agreed as a true record of proceedings</i>).			
Community website for FIAC		<p>The Chair confirmed that a community website for FIAC had been created and that all members should have been invited to join. Some members had missed this opportunity and asked if it would be possible to be invited to join once again. The Chair agreed to ensure that all members of FIAC received another invite to join.</p> <p>Action 1a: Community website to be created. Update: Website created, further invitation to be sent.</p>	Discharged
Action Points	2.a	Michael to send out another invitation to all members to join the FIAC Community website	M Bone
Silica update – health surveillance		<p>Action 2a: John Osman to report to FIAC on progress. Update: The Chair provided a further update on progress by the Working Group on Health Surveillance for those exposed to silica. The final report and the data from HSL is now expected March 2010. Once the WG has had a chance to consider this data the Chair will inform FIAC of the outcomes.</p> <p>Action 2b: The Chair to investigate the advice given internally Update: The Chair confirmed to the committee that he had made enquires about the concern relating to inconsistent advice given by Inspectors about chest x-rays. The HSE policy stance on this issue had been checked and all relevant staff reminded of the current steer. Operational Inspectors would refer matters to Medical Inspectors where there was evidence that HS involving x-rays was indicated but was not being undertaken.</p> <p>Action 2c: Committee members to make Mr Parker aware of any further examples of inconsistent advice. Update: No further examples provided.</p>	<p>Standing Agenda item</p> <p>Discharged</p> <p>Discharged</p>
LEV Project Update		Action 2d: HSE will provide an update on the LEV project at the end of the work year relating to Foundries.	
LEV Project Update (cont)		Update: The Chair confirmed that the information provided by Inspectors from the LEV Project visits to Foundries had been received. The information will have to be checked and a summary of	

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		<p>the common issues will be provided to the committee.</p> <p>Action 2c: HSE to obtain a list of the 17 sites visited to establish if they are members of the CMF. Update: List obtained and John Parker and Michael Bone to go through the list and establish which companies visited were members.</p>	
Action Points	2.b	HSE to go through visit information and provide summary to committee	M Bone
	2.c	John Parker and Michael to go through list of companies visited and check whether or not companies are CMF members.	J Parker / M Bone
Lung cancer and exposure to FFP in steel foundry workers		<p>Action 3a: Dr John Osman to attend next meeting to discuss these outcomes further. Update: Action deferred</p>	John Osman
Foundry Monitoring – site visit protocol		<p>The aim of this project was to visit 3 CMF foundry members where the exposure risk to benzene and aromatic amines would be targeted.</p> <p>Action 5b. Andrew Easterbrook to provide details of the aluminium foundry process that produced benzene exposures. Update: Glyn Morley and John Parker provided Andrew Easterbrook with some pointers towards which processes cause the production of benzene. Mr Easterbrook will be invited to update FIAC later in the year.</p>	Discharged (see Item 6)
Development of cancer WebPages		<p>HSEs Disease Reduction Programme (DRP) is developing new WebPages that provide information and guidance on work related cancer issues. The pages are due to be launched in spring 2009 via the HSE website.</p> <p>Members were invited to supply studies demonstrating cases of high exposure risks and how these have been reduced.</p> <p>Action 9a. John Parker to ask CMF members for suitable case studies Update: 3 member Foundries have come forward with examples. These will be placed on the SHIFT web site and a link can be made from HSE's website to it.</p>	Discharged

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	Formaldehyde (Update from ACTS 11 November 2008)	<p>Mr Hudspith had provided the committee with an overview of the partially closed ‘European Commissions 3rd directive on indicative occupational exposure limit values’ paper (HSE/08/82)</p> <p>However, there had been further developments with Formaldehyde and so Colin Davy had been invited to the committee to give an up to date position.</p> <p>Action 3.2: Committee to be advised when the consultation document is available and paper to be placed on Community website</p> <p>Update: Change in position, agenda item 4.</p>	Discharged (See Item 4)
	SHIFT working group on electromagnetic fields (EMF)	<p>John Parker provided the committee with an update on EMF. John had spoken to Tim Beaumont (HSE) and had been given two contacts of organisations that may be able to help, the Welding Institute and the EEF. The Welding Institute had proved not to be suitable but there was some progress with the EEF. John was hoping that UK steel within the EEF would be able to provide a service and do some measuring at some volunteer Foundries. There was now a Community for EMF and information and John will provide the link for members of the committee.</p>	
Action Points	2.d	John to provide link to EMF Community to Michael.	John Parker
	Carcinogens programme	<p>John McAlinden had provided the committee with an update on HSEs carcinogens programme and had given details of the new workstreams indicating that Foundry work would be a priority area. He also gave details of further Foundry visits that would be carried out looking at worker exposure to benzene, aromatic amines and azo dyes. A proposed HSE/CMF study of Occupational Hygiene Risk was discussed and volunteers were requested.</p> <p>Action 5.1: Committee members to respond to CTI regarding Johns request to forward the CTI dataset to the Cancer Project Epidemiology team; CTI to reply to John McAlinden.</p> <p>Update: John McAlinden to speak to Jon Donohoe</p> <p>Action 5.2: HSE/CMF study of Occupational Hygiene Risk - Volunteers to the Chair and John McAlinden by the end of March 2009</p> <p>Update: Volunteer members for the working group had come forward.</p> <p>Action 5.3: Working group to be convened</p> <p>Update: The Working Group for the Foundries Project had it's first meeting on the 11th August 2009 (see Item 7).</p>	Discharged Discharged
Action Points	2.e	John McAlinden to contact Jon Donohoe, CTI (Environmental Services)	John McAlinden
	Load security on curtain sided lorries RR662	A full version of Research Report 662 can be found on the HSE website at:	

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		<p>http://www.hse.gov.uk/research/rrpdf/rr662.pdf.</p> <p>The findings of the report were discussed and the committee discussed the possibility of producing industry specific guidance summarising the findings. The committee agreed that this would be appropriate but they were keen for it to be kept short.</p> <p>Action 7.1: Chair to investigate if the recently produced WPT guidance would be suitable as a template for the foundry industry.</p> <p>Update: The Chair had sent the PABIAC specific guidance to John Parker and it was hoped that this could act as a template.</p>	Discharged
	Securing Goods Safely	<p>Nina Day had sent apologies as she was unable to attend the last meeting.</p> <p>Action 8.1: Nina Day to be invited to meeting.</p>	Discharged (see Item 3)
	HSE latest foundry accident statistics	Main agenda item	Discharged (see Item 11)
	HSE strategy	<p>The Chair made the committee aware of the current consultation on the recently launched HSE Strategy, due to close early March and informed members that a new engagement strategy for FIAC would have to be developed.</p> <p>Action 11.3: The Chair is currently developing an engagement strategy for FIAC, once developed this will be shared with committee members.</p> <p>Update: Ongoing, work to be done with Michael.</p>	
Action Points	2.g:	Chair and Michael to produce draft strategy document for FIAC	Chair / M Bone
Item 3 – Securing Loads Safely – update on research			
3.	Load security on curtain sided lorries RR662	<p>Nina Day from HSL gave an excellent presentation on Load Security and the common problems found with loads on vehicles. The presentation stimulated good discussion and debate. David Bartlett commented that an employee at his company had taken this matter forward with interest and enthusiasm. However, he ultimately felt disillusioned as he thought that much of the issue was out of his control with deliveries turning up poorly loaded etc. and there was little he could do. It was also felt that unless Haulage Operators were caught by the appropriate regulator there was little reason for them to change. The increased powers of VOSA and the joint HSE/Metropolitan Police pilot were put forward as reasons why it was likely that more Hauliers would have to change as there was a greater chance of them being caught.</p>	

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		<p>Bud Hudspith commented that the experience of the employee at W H Rowe demonstrated why it was important for the industry to produce industry specific guidance. This would allow the industry to act as a collective and they would therefore hopefully have more influence.</p> <p>The Chair suggested that the employee at W H Rowe may want to be involved in putting the industry specific guidance together</p>	
Action Points	3.1	Michael Bone, John Parker and David Bartlett to take the issue of producing industry specific guidance forward. It was agreed that they could discuss this at the next SHIFT meeting on the 10 th November 2009.	M Bone/ D Bartlett/ J Parker
	3.2	Nina's PP presentation to be uploaded onto FIAC community website	M Bone
Item 4 – IEOLV Directive update – Formaldehyde position			
4.0	Formaldehyde position	<p>Colin Davy provided the committee with an update on the position with Formaldehyde:</p> <ul style="list-style-type: none"> • It has been removed from the 3rd IOELV list and the original Scientific Committee for Occupational Exposure Limits (SCOEL) suggestion of a new limit set around 0.2 ppm (8-hour TWA) will not be signed off this month and therefore will not come into force by November 2011. However, HSE is currently consulting on a new lower WEL for formaldehyde which may come into force in about two years. This would be an 8-hour TWA 1 ppm with a STEL of 1 ppm. • Colin will need comments by the end of November 2009 as a paper will be going to ACTS members fairly soon proposing recommendations for 19 substances still left on the 3rd IOELV Directive and the proposed consultation for formaldehyde. • <i>Colin hopes to have an impact assessment for the 1 ppm proposal for formaldehyde by December; if any FIAC members have any views they should contact him directly..</i> • It was confirmed that as part of the proposed LLHR Foundries Project, formaldehyde will be added to the list of substances that will be analysed during the foundry visits from April 2010 onwards. 	
Action Point	4.1	FIAC and CMF members to send views of proposed 1ppm limit for Formaldehyde to Colin Davy by end of November	All
Item 5 – HSE Dust Initiative			
5.0	HSE Dust Initiative	<p>Susan Polack gave a presentation to the committee on the HSE Dust Initiative.</p> <p>The 'Dust initiative' is a long term communications project that aims to raise awareness of the risks of exposure to dust in the workplace and promote to both management and workers clear messages on how to reduce the risks of respiratory disease.</p>	

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	HSE Dust Initiative (cont)	<p>The initiative comprises two work strands:</p> <ul style="list-style-type: none"> • Overarching communication-related activity to raise awareness of occupationally related respiratory disease through the development and promulgation of a 'Dust' product brand; • Individual project led activities and interventions focused on key audiences within targeted sectors of industry as determined by the evidence, risks and scale of the problem <p>Five Industry sectors will be targeted: Foundries; Quarries; Stonemasons, Welding, Construction.</p> <p>The Foundry Industry has been identified as a target industry within the Dust Initiative due to research that suggests that an estimated 10,000 workers are exposed to Nickel compounds, silica and other mineral dusts, metal fume, polycyclic aromatic hydrocarbons (PAHs), welding fumes, oil mist, aromatic amines, benzene, binding agents (tar, coal) and other constituents of ferrous foundry particulate which can cause long latency diseases such as cancer and COPD.</p> <p>Long Latency Health Risks Division's (LLHRD) purpose is to bring about a reduction in occupational disease such as Chronic Obstructive Pulmonary Disease (COPD), Silicosis and Cancer.</p> <p>LLHRD work contributes to HSE's new strategy to create healthier and safer workplaces by specifically targeting key health issues. HSE will identify and work with those best placed to bring about a reduction in the number of cases of work related health.</p> <p>There was an agreement amongst the committee members that the Dust Initiative should be kept as a standing item on FIAC agendas in the future.</p>	
Action Point	5.1	Dust Initiative to be kept on the FIAC agenda	Standing agenda item
Item 6 – Update on Foundries Monitoring Project			
6.0	Foundries Monitoring Project	<p>John McAlinden provided an up date on the Foundries Monitoring Project.</p> <p>January – September 2009</p> <ul style="list-style-type: none"> • HSE visited 3 Foundries to sample and monitor for worker exposures to benzene and aromatic amines – 2 more visits to follow • HSE visited 3 Foundries identified as users of liquid dye penetrants containing azo dyes to sample urines for exposures to the aromatic amines o-toluidine and aniline <p>Benzene and aromatic amines sampling visits:</p> <ul style="list-style-type: none"> • Personal air sampling results available for 1 Foundry (steel) only • 8 hr TWA personal air samples for 7 workers at 30% to 100% of FFP WEL (mean 60%), <10% of Benzene WEL and <2% Aniline WEL • Previous enforcement visits to iron and aluminium (airset casting) foundries have recorded 	

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	Foundries Monitoring Project (cont)	<p>benzene exposures at 100% and 25% (respectively) of the WEL</p> <ul style="list-style-type: none"> • Biological monitoring results available for 1 Foundry only • Urine samples received from 10 workers • Results for o-toluidine all recorded as non-detects • Results for aromatic amines (4) either recorded as non-detects or within the reference range for unexposed population <p>January – April 2009 – azo sampling dye visits</p> <ul style="list-style-type: none"> • Results available for 2 of the 3 Foundries visited • Urine samples received to date from 5 workers – more expected • Results for o-toluidine all recorded as non-detects • Results for aniline within the reference range for unexposed population <p>*An update to the above results provided by Andrew Easterbrook (HSL) is attached to these minutes. The original results have been modified to reflect the fact that the exposure data is task specific (up to 3 hr sampling period) and not 8-hr TWA. This is drawn to the attention of members as they were advised to assume the worst case that they were in fact 8-hr TWA.*</p>	
Action point	6.1	Presentation to be uploaded onto FIAC Community website	M Bone
Item 7 – Foundries Long Latency Health Risks Project (Foundries Project).			
7.0	Foundries Project	<p>John McAlinden presented a summary of the proposed Foundries Long Latency Health Risks Project (the “Foundries Project”) to the committee. Essentially the project addresses the question 'what improvements can be practicably aimed for within the Foundry industry to bring about a reduction in the number of cases of work-related ill health?’.</p> <p>Background</p> <ul style="list-style-type: none"> • Large numbers of Foundry workers (24,500 workers at 450 foundries) can be exposed to chemicals or substances known to cause long latency disease such as cancer and COPD • An independent 1994 epidemiological study of steel foundry workers found an almost 50% excess of cancers • HSE report an estimated 29 attributable cancer registrations amongst steel foundry workers in 2004 	

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	Foundries Project (cont)	<p>A joint industry/FIAC partnership working group met to discuss and develop a project proposal.</p> <p>Objectives</p> <ul style="list-style-type: none"> • Investigate practicability of process change including substitution • Agree a baseline occupational exposure dataset • Improve LEV in Foundries • Improve use of RPE in Foundries • Improve management of control measures • Identify best ways of communicating with industry audiences • Produce a deliverable which assists in achieving a reduction in the number of cases of work related ill-health <p>Plan of work</p> <ul style="list-style-type: none"> • Year 1: work with up to 15 pilot Foundries to develop a baseline occupational exposure dataset and review practicability of process change including substitution • Year 2: work with 5 partner Foundries (drawn from Year 1 pilot visits) to develop improvements in LEV, RPE, exposure controls management and methods of communicating with industry audiences • Year 3: produce project deliverables. <p>The Presentation given by John covering the Foundries Monitoring Project and the Foundries Long Latency Health Risks Project will be placed on to the FIAC Community website.</p>	
Action point	7.1	Presentation to be uploaded onto FIAC Community website	M Bone
Item 8 – SHIFT update			
8.0	SHIFT update	<p>John Parker provided committee members with an update on SHIFT. Regular meetings are now being held and there are 30-40 regular attending companies. This is encouraging but it is hoped that the number will continue to increase.</p> <p>The proposed programme of reciprocal visits has started and there was positive feedback from David Bartlett concerning these visits. His and the other companies involved had found the visits very useful.</p> <p>The structure of the revised SHIFT website has been developed and was put to the committee. The committee agreed that the structure appeared appropriate.</p>	Standing agenda item
Item 9 – Workplace Temperature – feedback from HSE presentation			
9.0	Workplace	John Parker provided the committee with a summary of an HSE workshop concerning the review	Discharged

Number	Item	Details	Action
	Temperature	<p>of Workplace Temperatures requirements. There had been concerns that a new maximum workplace temperature limit may be set. The workshop was well attended and included companies where employees are expected to work at low and high temperatures. John was of the opinion was that there was no need for concern as the consensus view at the workshop seemed to be that where companies have employees working at high temperatures the risks were being managed.</p> <p>Copies of the paper submitted to the HSE Board following the workshop report are now available on the HSE website at http://www.hse.gov.uk/aboutus/meetings/hseboard/2009index.htm (23 September 2009 meeting)</p>	
Item 10 – Furfuryl Alcohol – update on current position.			
10.0	Furfuryl Alcohol	<p>Members had expressed concerns that they had not heard of any progress with this matter for some time.</p> <p>Colin Davy provided an update on the current position.</p> <p>Furfuryl Alcohol was being considered by the Scientific Committee for Occupational Exposure Limits (SCOEL) which may propose a new Indicative Occupational Exposure Limit (IOELV) and this turn may affect the WEL. However, it was felt that there was unlikely to be any change for at least two years.</p> <p>A review of the current epidemiological data was being carried out at the moment by the SCOEL with the view to potentially setting a new health based limit.</p> <p>It was agreed by members that Furfuryl Alcohol should be kept as a rolling item on FIAC agendas in the future</p>	
Action Points	10.1	Furfuryl Alcohol to be kept on the FIAC agenda	Standing agenda item
Item 11 – RIDDOR statistics.			
11.0	RIDDOR statistics	<p>Tracey Oliva had provided the committee with an overview of the molten metal industry statistics over an eight-year reporting period.</p> <p>Update: Statistics had been checked with the complete end of year data and were found to be correct. Approval had been sought for external release of molten metal statistics but not been given to date. In view of the imminent release of statistics in October, the information will be updated with a request to HSE Stats Unit for it to be made available for the public domain.</p>	
Action point	11.1	HSE Foundry stats to be updated and presented to next FIAC meeting	P Smith

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Item 12 – AOB			
12.1	Silica Users Group	John reported that there was a raft of work being undertaken by Nepsi in connection with the 2010 reporting round under the Social Dialogue Agreement for Silica with emphasis being given to improved reporting and trying to get sectors eg construction, not signed up to the SDA to participate. It has been suggested that Spain is considering a WEL of 0.025 mg/cu m which has raised issues surrounding an EU versus national exposure limit.	
Action point	12.1	John McAlinden to explore STOTs versus WEL and report back to FIAC	J McAlinden
12.2	Federal Mogul – Explosion Relief	David Oddy of Federal Mogul raised a query concerning explosion relief on dust collection systems. The Chair informed the committee that he was aware of a good guidance booklet on explosion relief for the metal industries. The Chair will investigate the availability of the booklet and make it available to Mr Oddy and the committee.	
Action Point	12.2	Chair to investigate availability of explosion relief guidance booklet and make available to Mr Oddy	P Smith
Item 13 – Date and location of next meeting			
<p>Wednesday 17 February 2010 at 10.30 at CMF, West Bromwich</p> <p>Wednesday 13 October 2010 at 10.30 at HSE, Birmingham</p>			

ITEM 6 – Foundries Monitoring Project

Summary of exposure data measured at Foundry visits under Extend topic: examination of Benzene exposures in Foundries

(3 foundries visited so far)

TRIM record ref: 2009/396883

Moulding system	Metal	Measurements	FFFP Exposure (TIP) Task specific exposures – up to 3 hour sampling period	Benzene Exposure Task specific exposures – up to 3 hour sampling period
Greensand	Cast Iron	8	5.3 to 9.8 mg.m ⁻³	Melting: max 0.17 ppm Pouring: max 0.33
Shell moulding- shells: Phenol- formaldehyde resin Cores: amine-cured phenol/isocyanate copolymer	Cast Iron	15	Casting, up to 11 mg.m ⁻³ knockout up to 7.5 mg.m ⁻³	highest task measurement 0.35 ppm
Phenolic resin	Steel	14	Moulding – up to 11.9 mg.m ⁻³ Casting: up to 11 mg.m ⁻³	all <0.13 ppm (12% of WEL)
Exposure limits:			10 mg.m ⁻³	1 ppm

Biological monitoring S-PMA results (metabolite of benzene):

Out of approximately 80 samples submitted from the 3 foundries only 2 exceeded the measurements that would be expected in the unexposed population. Neither exceeded the (US) guidance value.