

# CEMENT PERFORMANCE REVIEW

QUARTER 3 2007

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## TRAINING 2008

**cpi** is pleased to announce the dates of its 2008 training Seminar, which will be held at Gatwick, London on the 1st to the 5th June. The course location has been chosen due to it's proximity to the **cpi** offices in Kent, as it allows the company to use many more of its experts to present on the course and to interact with the participants.

The format of the course has been slightly changed this year following some extremely constructive feedback from the participants. The course will run for four days in 2008, instead of 3 days in 2007. This is to allow the following changes:

- Additional time at the end of each presentation to allow more discussion with the presenters and across the group such that personal experiences and problem areas at participants sites can be shared.
- Additional case studies and tasks during the course so that the participants can test their understanding of the material that they have been presented with.

As usual, **cpi** will send out the pre-course questionnaire to all participants and if there is a wide range of experience of those on the course, **cpi** may also hold some break-out sessions on different subjects to ensure that all participants needs are fulfilled.

The Course is entitled "Optimisation of Cement Manufacturing Operations" and a copy of the course programme can be found on page 4 of this newsletter, and as in previous years the registration will be via the **cpi** website.

**cpi** is aware that for many cement producers this time of the year is the 2008 budget period and for those planning training budgets the price for the 4 day course is £1900 per person excluding accommodation.

Feedback from some of the participants of the 2007 course can be found on the **cpi** website, and if you have any further enquiries about the course or any of the training courses that **cpi** can provide, please contact [enquiries@cementperformance.com](mailto:enquiries@cementperformance.com)

<http://www.cementperformance.com/>

<http://www.cementperformance.com/english/news.html>

[http://www.cementperformance.com/gatwick/cpi\\_Gatwick\\_Training\\_Programme.pdf](http://www.cementperformance.com/gatwick/cpi_Gatwick_Training_Programme.pdf)

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## YANBU CEMENT—SAUDI ARABIA

Since the last newsletter, **cpi** has been working with Yanbu Cement Company in Saudi Arabia.

A number of **cpi** associates have worked with YCC in the past, when Blue Circle Industries were technical consultants during the design, construction and commissioning of line 4 precalciner.

Amongst the projects that were completed for YCC are:

A review of the uses of CKD and by-pass dust from the 3 long dry kilns and the precalciner respectively. This included reviewing both the mechanical and process options for the site.

A process audit on the raw mills and pyro-processing line to establish the performance of the plant and to make recommendations where necessary.

**cpi** is also assisting YCC with reviewing technical options for future capacity growth.

## NEW MECHANICAL ENGINEERING RESOURCE

On the 1st of September, **cpi** welcomed Miguel Munoz to the team as a full time member.

Born in Colombia, Miguel is a qualified Mechanical Engineer and as part of his studies spent a 6 month placement working at SKF in Germany, developing his

understanding and experience of industrial bearings. Following graduation, Miguel worked at Forjas Bolivar in Colombia. He gained experience in casting and forging processes, as well as cement industry consumables such as chains, bucket elevator equipment, refractory

anchors and bolting systems.

Miguel will be working on **cpi's** reliability and maintenance management services, as well as troubleshooting clients mechanical engineering problems. Miguel has also recently completed his MBA.

## COMMISSIONING IN MALAYSIA

As this newsletter went to press, **cpi** was sending one of its associates, Roger Griffiths, to Malaysia for the commissioning of a new cement plant.

The plant has recently been through an

uprating of the pyro-processing line. Commissioning is one of services that **cpi** can provide for its clients and is one of the most important parts of a project.

Not only must the

equipment be started up in a controlled manner to prevent damage to the process, an efficient commissioning means that the client can start generating revenue more quickly and therefore reach the payback and profit targets on time.

## BUZZI UNICEM-PRYOR PLANT

**cpi** has been requested by Buzzi Unicem Pryor plant to assist them in reviewing their operating and production strategy. The study has two specific goals:

A review of the clinker types that are made at the site, such that the number of clinkers that are made can be reduced

but the number of cement types maintained.

A review of the variability, plant testing regime and chemistry control parameters that are used on the site.

**cpi** have assigned Rob Sharman to this job. Rob is one of the latest

additions of associates to the team and has a long career in the cement industry. He has qualifications in process engineering, mechanical engineering and chemistry. Rob started his career in the UK, then moving to Mexico and finally, Chile, as Industrial Director for Cemento Melon.

Rob completed his career as Industrial Director and Safety Co-ordinator for Lafarge South America, based in Honduras.

## BUCKINGHAM PALACE

As part of the recognition of winning the Queens Award for Enterprise : International Trade, **cpi** owners Allison Riser and Peter Dover, along with Mark Mutter, were invited to Buckingham Palace in July.

The reception was attended by 3 representatives of each

award winning company, who were presented to the Queen and Prince Philip, and who were also able to meet other members of the Royal Family.

As a final part of the Award, **cpi** hosted a reception in Kent in September for its

employees, suppliers and other stakeholders (who have been instrumental in **cpi** winning this award) which was also attended by the Lord Lieutenant of Kent. The Lord Lieutenant is the Queens representative in the county and presented Allison Riser with the Queens Award Rose Bowl.



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Day 1

9:00 – 9:30	Introduction to Key Objectives and Group Introduction
9:30 – 10:30	Customer Perspective <ul style="list-style-type: none"> <li>• Maintaining the competitive edge</li> </ul>
10:30 – 10:45	BREAK
10:45 – 12:30	Optimising raw materials <ul style="list-style-type: none"> <li>• Raw materials - quarrying and crushing</li> <li>• From raw materials to kiln feed – grinding theory and raw milling systems review</li> </ul>
12:30 – 13:30	LUNCH
13:30 – 15:30	Optimising raw materials <ul style="list-style-type: none"> <li>• From raw materials to kiln feed – mill system control and optimisation, blending systems</li> <li>• Chemistry and quality control aspects</li> </ul>
15:30 – 15:45	BREAK
15:45 – 17:00	Day 1 Group Activity and Summary

Day 3

8:30 – 9:00	Day 2 Feedback & Review of Key Points
9:00 – 10:30	Cement Milling Operation <ul style="list-style-type: none"> <li>• Grinding theory, cement milling systems review, cement mill control</li> </ul>
10:30 – 10:45	BREAK
10:45 – 11:30	Cement Milling Operation <ul style="list-style-type: none"> <li>• Mill testing and optimisation</li> </ul>
11:30 – 12:30	Quality aspects of cement milling <ul style="list-style-type: none"> <li>• Key quality control parameters</li> </ul>
12:30 – 13:30	LUNCH
13:30 – 14:15	Process Variability <ul style="list-style-type: none"> <li>• Predictive methods to reduce variability and the cost of process variability</li> </ul>
14:15 – 15:30	Plant Maintenance Strategy <ul style="list-style-type: none"> <li>• Cost of reliability</li> <li>• Maintenance strategy</li> </ul>
15:30 - 15:45	BREAK
15.45 – 17:00	Day 3 Group Activity and Summary

Day 2

8.30 – 9:00	Day 1 Feedback & Review of Key Points
9:00 – 10:30	Kiln Operation <ul style="list-style-type: none"> <li>• Kiln / cooler systems and optimisation</li> </ul>
10:30 – 10:45	BREAK
10:45 – 12:30	Kiln Operation <ul style="list-style-type: none"> <li>• Flames and firing</li> <li>• Chemistry in the kiln</li> </ul>
12:30 – 13:30	LUNCH
13:30 – 14:15	Kiln Operations <ul style="list-style-type: none"> <li>• Optimisation of kiln systems</li> </ul>
14:15 – 15:30	Alternative fuels and Raw Materials <ul style="list-style-type: none"> <li>• Identifying potential materials</li> <li>• Impact upon process and quality</li> </ul>
15:30 – 15:45	BREAK
15:45 – 17:00	Day 2 Group Activity and Summary

Day 4

8:30 – 9:00	Day 3 Feedback & Review of Key Points
9:00 – 10:15	Refractories
10:15 – 10:30	BREAK
10.30 – 12.00	Environmental Issues <ul style="list-style-type: none"> <li>• Protection Equipment</li> <li>• Emissions strategy</li> <li>• Legislation and Accreditation</li> </ul>
12.00 – 12.30	Introduction to Group Activity
12:30 – 13:30	LUNCH
13:30 – 14:30	Group Activity (continued)
14.30 – 15.30	Group Activity Presentations and feedback
15.30 – 15.45	BREAK
15.45 – 16:30	Delegate strategy development for:- <ul style="list-style-type: none"> <li>• Identifying company/plant improvement plans to improve process operation and reduce operating costs</li> </ul>
16:30 -	Questions and Workshop Review

**CUSTOMER SURVEY RESULTS**

A big thank you from **cpi** out—it has provided needs. Once all of the results have to all those who invaluable feedback for been compiled we will publish the completed the customer **cpi** to further develop its results on the website for those survey that was sent services to cater for your that are interested.