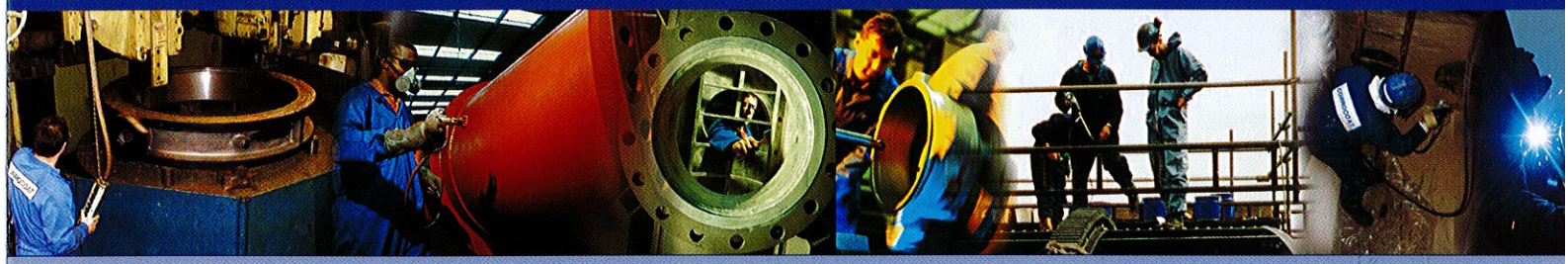
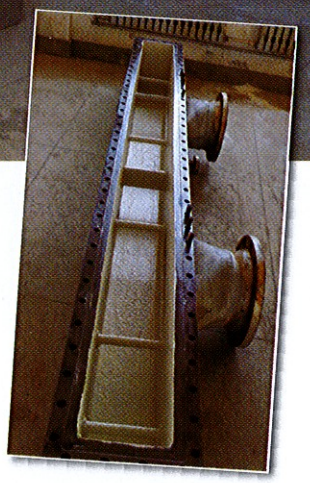
ANTI-CORROSION AT WORK



# CORROCOAT NEWS

## GEARING UP FOR SUCCESS IN CHINA





**In order to support our growing customer base in China, two years ago we completed our network of licensees in the country. Now, thanks to their growing knowledge of Corrocoat products and techniques all have built up solid experience and have become strong advocates of our technologies, which in turn have led to healthy order books.**

Typical of this is Dalian Maxthon High-Tech Co Ltd. Based in Dalian, a major industrial centre and seaport in north east China, the company has become the preferred supplier of anti-corrosion solutions to several of the ship building, manufacturing, petrochemicals and oil refining businesses in the area.




In a recent contract for CNPC - one of China's largest manufacturers of petrochemical products - Dalian Maxathon were contracted to refurbish and protect a large number of refinery cooling system pipe boxes.

The pipe boxes were blast cleaned to ISO 8501 – Cleanliness Standard Sa 2½ before being protected against further corrosion with Polyglass VEF.

Polyglass VEF was the ideal choice for this contract as it has a proven track record of protecting similar components against water and chemical damage. Many similar refurbishments completed by Corrocoat are still in operation after more than 25 years in service.

"Our technical teams have been actively working with our licensees in China and their hard work is certainly starting to pay off," said Rob Cole, Sales & Business Development Director. "Our vision is to be closer to our customers in order to respond efficiently to their requirements. China is a fast growing market for us with significant opportunities and we look forward to continued progress."

Issue 111
October 2011

## In this issue

Page 2



Cost Effective Solution for Dutch Storage Company

New Licensee in Brazil

Page 3



Successful Track Record helps Vietnam Licensee win Steel Pipe Coating Contract

Fluiglide – Now With WRAS Approval

Page 4



Scrubber Units are pristine 10 years after coating

Corrocoat Opens Office in Kazakhstan

Page 5



Corrocoat USA solves costly problem

New Business Development Manager

Page 6



It's All Taking Off In Kuwait

Taking the Reins at Corrocoat USA

Get your 2012 Corrocoat Year Planner Now!

Page 7



ACW Strainer

Page 8

Exhibition programme

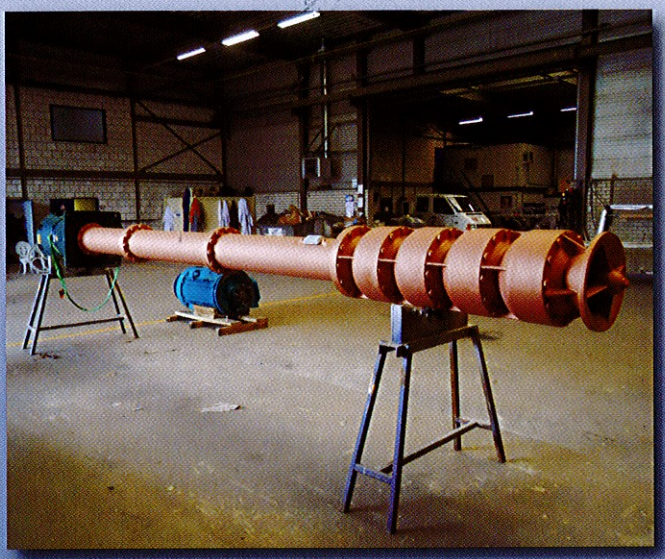
Polyglass VEF achieves potable water and food-use certification in Belarus

# Cost Effective Solution for Dutch Oil Storage Company

**Corrocoat Benelux BV has recently completed a contract to refurbish four fire extinguisher pumps for a major oil storage company in the Rotterdam Port area.**




Previously divers were required on a regular basis to inspect and clear away marine growth from the inlet areas of the pumps to ensure that intake flow would not be reduced in an emergency. This is a long and costly exercise, but by using Corroglass 600 series build coats and a Biofoul topcoat, excellent long term corrosion and anti-foul protection in this arduous environment is guaranteed, minimising the need for divers in the future.



# New Licensee in Brazil

**Brazil is one of the world's fastest emerging economies, with large and growing, mining, marine, manufacturing, oil, gas and petrochemical sectors. In order to ensure we optimise our opportunities in Brazil, and underline our ambitious plans for growth worldwide, we have appointed Empower Brasil as licensee.**




Empower is a solution provider and maintenance engineering company offering a 'One Stop Technical Shop' for all engineering requirements. It already serves our target markets in Brazil, and has a highly motivated team of engineers, all of whom have extensive knowledge with skills gained from many years experience.

"We are delighted to conclude this agreement with such a dynamic and highly respected company as Empower," said Graham Greenwood-Sole, Managing Director of Corrocoat."




"South America is one of the fastest growing regions for our technologies and Alex Tostes and his team at Empower will help us to capitalise on this, not only through local stocks and service, but also through technical back up and applications engineering. Corrocoat products and technology will strengthen Empower's existing presence in its target markets."

# SUCCESSFUL TRACK RECORD HELPS VIETNAM LICENSEE WIN STEEL PIPE COATING CONTRACT





**Our licensee in Vietnam- VGCE is currently completing a large steel pipe coating project for the Cambodian Water Department at its Mekong River Water Treatment Plant at Phnom Penh.**

The project includes the coating of 2 x 100m of 1.65m diameter intake pipes; the pipes are being fabricated at the client's designated fabrication company's premises in Vietnam and then coated by VGCE before being transported by road to the WTP site.




Once on site VGCE will install a rail track and bogie system so that the pipe sections can be welded together and the final coating applied. VGCE have also been awarded the contract to install the intake pipes; this will be carried out by floating the completed pipe sections down the Mekong River on tug boats. Barges and cranes will then be used to position the pipes and divers will connect them to the land-side pipework.

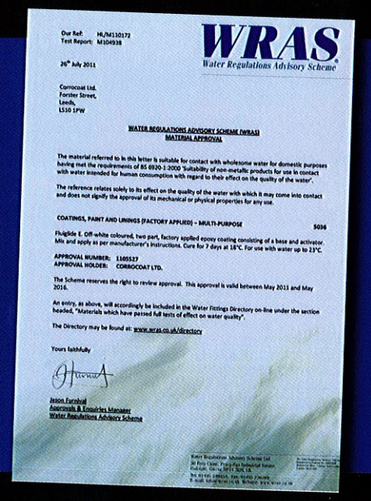
The client selected Corrocoat VEF, Biofoul and Zip-E due to their outstanding track record on this type of work. VGCE's ability to apply the coatings efficiently and cost-effectively was also a key issue in the decision making process.

VGCE has also tendered for other pipework coating contracts for the Cambodian Water Department and is building up a mutually rewarding relationship with this client.

# FLUIGLIDE E – NOW WITH WRAS APPROVAL

**We are pleased to announce that the Water Regulations Advisory Scheme (WRAS) has granted approval to Fluiglide E for use on those applications where there is contact with water intended for human consumption.**

Versatile Fluiglide E is a cold cured 100% solids epoxide, modified to give a high surface finish, thereby reducing roughness amplitude. It is designed and approved for a wide variety of applications where reduced fluid friction in service conditions is required.



WRAS
Water Regulations Advisory Scheme

Our Ref: ML/M110172
Test Report: M104938

26th July 2011

Corrocoat Ltd,
Forster Street,
Leeds,
LS10 1PW

WATER REGULATIONS ADVISORY SCHEME (WRAS)
MATERIAL APPROVAL

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS 6920-1:2000 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

COATINGS, PAINT AND LININGS (FACTORY APPLIED) - MULTI-PURPOSE — 9036

Fluiglide E. Off-white coloured, two part, factory applied epoxy coating consisting of a base and activator. Mix and apply as per manufacturer's instructions. Cure for 7 days at 18°C. For use with water up to 23°C

APPROVAL NUMBER: 1105527
APPROVAL HOLDER: CORROCOAT LTD.

The Scheme reserves the right to review approval. This approval is valid between May 2011 and May 2016.

An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: www.wras.co.uk/directory

Yours faithfully

Jason Fernyhough
Approvals & Enquiries Manager
Water Regulations Advisory Scheme

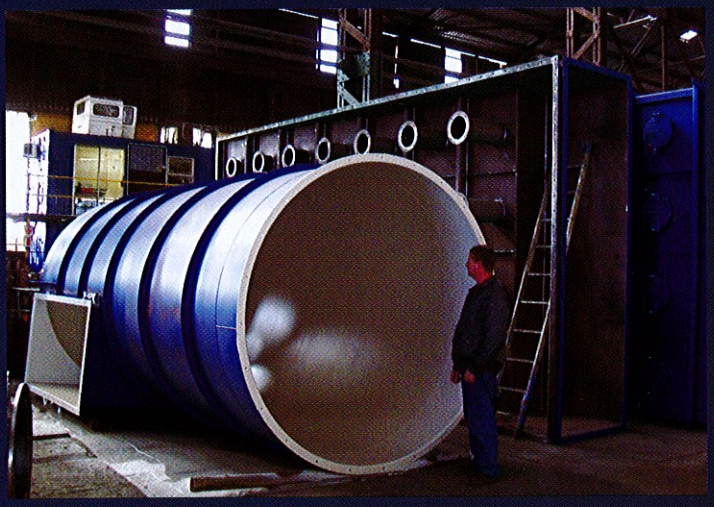
# SCRUBBER UNITS ARE PRISTINE 10 YEARS AFTER COATING

**Corrocoat SA has been successfully protecting 28, 18 and 12-cascade tube gas handling scrubber units for over 10 years on behalf of Outotec – the leading global provider of process solutions for the mining and metallurgical industries.**




A typical Outotec gas handling scrubber comprises some 60 pieces of stainless or mild steel covering approx 500 sq.m. Prior to the involvement of Corrocoat SA the scrubbers suffered from droplet erosion and pitting corrosion and if left unprotected had a life expectancy of less than 12 months.





Carrying out the work in its Johannesburg Workshops, Corrocoat SA first blast clean all surfaces to Sa 2 ½. They then coat the internal surfaces with Polyglass VE, GRP line to a nominal thickness of 1mm, and apply Corrothane XT to those parts requiring protection for gas temperatures in the 170-250°C range. Once cured all surfaces are 100% high-voltage spark-protected and any defects repaired prior to post-curing at 80°C for 12 hours.

As a result of this comprehensive protection package the working life of each scrubber has increased dramatically. In fact 18 units have been protected over the last 10 years with zero failures.

# Corrocoat Opens Office in Kazakhstan

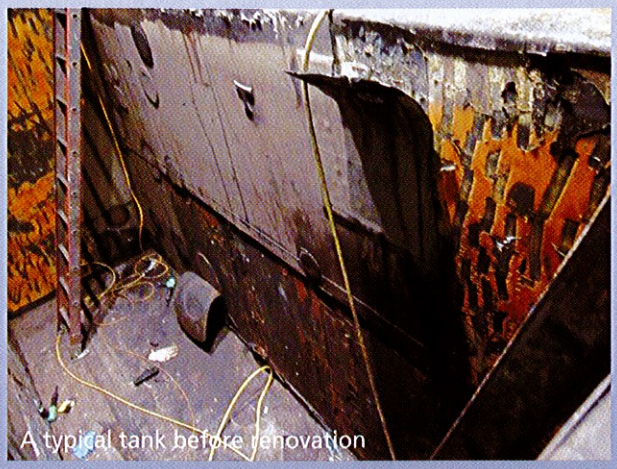
**Corrocoat has, for many years been working throughout Central Asia on major projects for clients in the oil, gas and mining industries. As this business is steadily increasing we have decided to set up an office in Kazakhstan to provide a single point of contact for new and existing customers.**

According to Managing Director, Graham Greenwood-Sole: "Corrocoat's growth strategy is guided by the requirement to be closer to our customers to serve them in the best possible way."

"As we are already working on several large–scale projects in Kazakhstan with many more at the tender stage, we made a decision to invest in the opening of a new office with a view to establishing a joint venture in the near future. We view Kazakhstan as an emerging market because of its importance as a leading international petroleum, natural gas and minerals provider – all markets in need of corrosion control solutions and we are now ideally positioned to meet the demand."

# THE GLOBAL VIEW

## Corrocoat USA solves costly problem



A typical tank before renovation



A tank after receiving the Corrocoat treatment

**Corrocoat USA was recently contacted by a leading construction equipment manufacturer to solve a problem that was causing them to shut down their operation one or two times each month.**

This manufacturer uses a series of carbon steel tanks to clean, acid etch or "pickle", galvanize and paint the equipment they produce. The acid etching tanks utilise a mixture of phosphoric acid, hydrochloric acid and process water to prepare steel members for galvanizing. Previously lined with rubber, the tanks were susceptible to failure due to penetration of the acid at the rubber seams or at puncture points.




The acid would then creep behind the rubber, causing corrosion in areas away from the initial access point. Once the failure was discovered, the client had to cut back the rubber to find the corroded steel, cut out the affected area, weld a repair plate and replace the rubber patch. This was a very inefficient and costly process.

The company contacted five leading coating manufacturers with the request that they provide sample plates coated with their product. These were placed in the bottom of one of the tanks and after three months they were removed and subjected to abrasion and impact tests to the point of failure.

Of the five products tested, Polyglass VEF gave by far the best results, so Corrocoat USA was given an order to spray apply this material to the tanks to provide an acid resistant composite lining system.

## New Business Development Manager



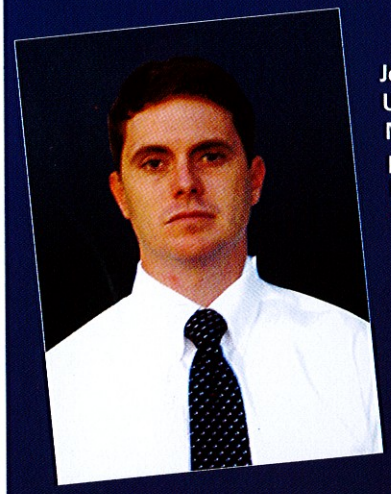
**Alan Cremer has been appointed as our new Business Development Manager.**

Alan, who brings a wealth of experience to the company after many years in the engineering industry will be responsible for supporting the development of new business across all our target markets by searching out new projects, liasing with key specifiers and assisting our global operations.

Commenting on his new appointment Alan said: " I am delighted to have joined the team at Corrocoat. The company has established a very positive profile in its key markets and from day one I have been delighted by the high level of new business opportunities. I look forward to helping Corrocoat to continue to grow and build on the strong position it has within the industry."

# CORROCOAT NEWS

## Taking the Reins at Corrocoat USA



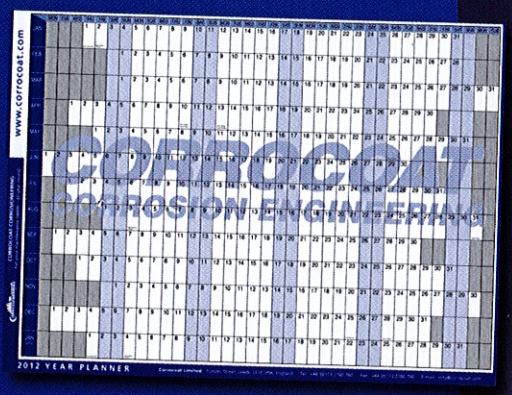
**Josh Tankersley is Corrocoat USA Inc's new General Manager, following his promotion from Sales Manager. Josh has been with the company for some two years, in which time he has been very proactive expanding business in the USA. His new responsibilities will encompass strengthening sales, after sales and contracting activities and help us achieve our vision of continued growth in the USA.**

"During the last few years Corrocoat has started to establish itself in the USA," says Josh. 'We are now entering a new phase for the company, With the unique products and services which Corrocoat can offer and the experiences gained by our international network to draw on, my team and I are looking to further extend business in what are challenging markets. I am proud and thrilled to take up the position of General Manager at this exciting time" concluded Josh.

## Get your 2012 Corrocoat Year Planner Now!

**We always try to go the extra mile to show our appreciation for the ongoing loyalty shown by our customers so in the next few weeks we will be distributing our 2012 Year Planners.**

Giving the ideal overview for project planning and order control, our wall planner gives the user a full 12 months at a glance and does not contain a raft of external advertising found on some planners, but instead concentrates on giving plenty of writing space for each day of the year.




670mm high x 920mm wide, and made from sturdy high quality paper, laminated to make them durable and wipe-clean, our planners also include UK public holidays.

A must for every planning or site office wall, if you would like your own free wall planner(s) please e-mail info@corrocoat.com and we will get one in the post.

## It's All Taking off in Kuwait

**The Al-Sabaiea Group is the sole distributor and applicator for Corrocoat in the State of Kuwait. Despite only marketing Corrocoat products since February of this year, Al-Sabaiea has already successfully completed many contracts with major operators in the oil, gas, and support industries. These have included over 30 separate coating projects for multi-national American company Halliburton Overseas Ltd.**

Typical of the work undertaken with Halliburton have been contracts for the internal coating of acid tankers, the total refurbishment of centrifugal pumps, and the interior coating of pipe spools and condensers.

For the acid tankers contract, Al-Sieba grit blasted the internals to ISO 8501 – cleanliness Standard SA 2 ½, then applied Polyglass VEF to a dft of 1500 microns. The coating thickness was checked by spark testing at 19Kv.




Spark testing following application of VEF on a Halliburton acid tanker.

# CASE FILE: ACW STRAINER

**CUSTOMER**
Major UK Power Station.

**APPLICATION DATE**
September 2011

**SCOPE OF WORK**
Remove gearbox, strainer lid and split the top and bottom sections. Grit blast internals to remove existing coating for inspection. Inspect strainer internals for corrosion/erosion and mechanical damage. Manufacture replacement bottom bearing.

Pre-machine Strainer top and bottom sections. After coating with Polyglass VEF on the internals post machine the Strainer. The top and bottom sections were then welded together using specialist techniques.

Coating was then applied over the welded joint, a trial assembly of the strainer and rotating filter unit was carried out. Final coating inspection before full assembly and pressure test at 2.5bar for 10 minutes.

**PRODUCTS**
Polyglass VEF Plasmet ZF

**SUBSTRATE**
Carbon Steel

**COATING SYSTEM**
- Grit blast to ISO Sa 2½ .
- Application of Polyglass VEF 1500 microns
- Coating was then spark tested
- External coat of Plasmet ZF

**CORROCOAT CREDENTIALS**
Corrocoat Corrosioneering Ltd have been a major supplier to EDF in the UK for many years. We perform outage work for the majority of their existing fleet. Carrying out work in a professional manner to often extremely tight timescales means we are a proven reliable partner.

Corrocoat provide long term corrosion protection to a wide range of capital equipment operating in aggressive service environments.


Strainer delivered to the Leeds workshop


Coating over the weld joint.


Finished and ready for service.

# CORROCOAT NEWS

## 2011 Exhibitions in Focus

**With the support of our partners we have showcased Corrocoat products and services at the following exhibitions this year:-**

**All Energy – Aberdeen**
The All-Energy Exhibition & Conference is the UK's largest event devoted to all forms of clean and renewable energy. Corrocoat is a regular exhibitor at this show which was held in May. The event featured 580 exhibiting companies from 20 countries and by offering a broad range of products to such high visitor numbers we generated more enquiries, from a higher-quality audience, than previous shows.

**Offshore Europe – Aberdeen**
This is the world's largest exhibition for the oil and gas sector. The event attracted industry specialists from all over the world and we were able to talk to and set up meetings with many of the top industry contractors, consultants and specifiers. The initial verdict on the show is overwhelmingly positive.

**Brasil Offshore – Macaé**
Working Empower Brasil we took a stand at this conference and exhibition which showcases the Brazilian offshore oil and gas industry. Held in June in Macae, the operational base for Brazil's offshore exploration, the event attracted over 50,000 professionals. Many opportunities arose and we were able to showcase our market leading products, vital in Brazil where we are rapidly establishing ourselves.

**Surface World & Correx – Birmingham**
We will be exhibiting at this, the UK's international showcase for the product finishing, surface engineering and corrosion control markets, which will take place at the NEC, Birmingham, from 1st to 3rd November. Held every two years, this event will provide us with a major opportunity to promote our latest products and services to potential buyers from around the globe.

## Polyglass VEF achieves potable water and food-use certification in Belarus

**Polyglass VEF has passed a number of tests in Belarus and as a result is now accredited as being suitable for use in contact with potable water and foodstuffs. This will open up further opportunities for Corrocoat AC and allow them to exploit all opportunities in the water supply and food processing industries in Belarus.**

We are currently in the course of expanding, refurbishing and re-equipping our Minsk engineering workshops, installing a multitude of the latest spray coating and engineering equipment. This investment in a re-equipped workshop is seen as important to help us increase our business in the area.




## Corrocoat – Leading the Field

Established in 1975, Corrocoat is one of the world's leading names in anti-corrosion technology, with over thirty years of experience in the development, manufacture and application of high performance corrosion-resistant coatings.

Based in the UK, Corrocoat operates across five continents from more than thirty locations worldwide. In addition, the company exports its coatings to users across the globe, offering long term solutions to corrosion problems.

Corrocoat's propriety high technology coating systems are backed up by advanced levels of technical expertise and proven performance attainments. Sustained investment in R&D and the design and testing of new methods and materials keeps Corrocoat at the leading edge, and gives the company the necessary flexibility of approach to combat the many different corrosion problems faced by modern industry.

Corrocoat News is produced by:-

CORROCOAT

Forster Street, Leeds,
LS10 1PW, England
Telephone: +44 (0)113 2760 760
Fax: +44 (0)113 2760 700
E-mail: info@corrocoat.com

Visit our website
www.corrocoat.com