

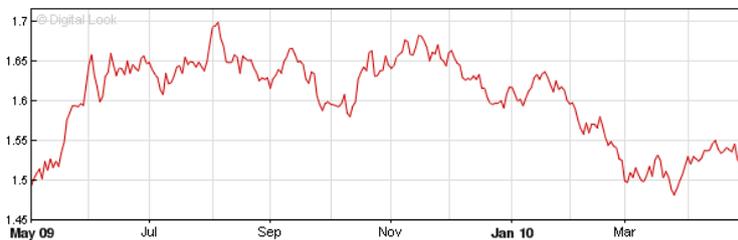
# KIRK

PROCESS SOLUTIONS

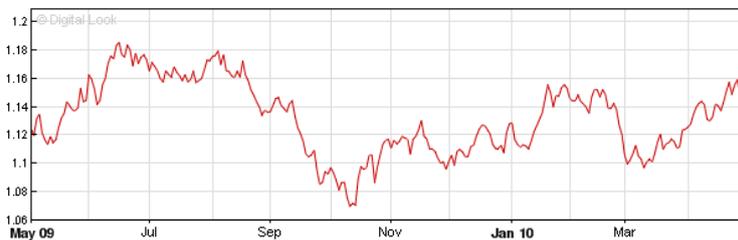
## Welcome...

Welcome to the May 2010 *Highspeed* e-newsletter from KIRK Process Solutions Limited. This edition brings you... market data tracking key exchange rates, commodity and share prices....industry news and project awards....the latest news from ourselves....and a special feature article!

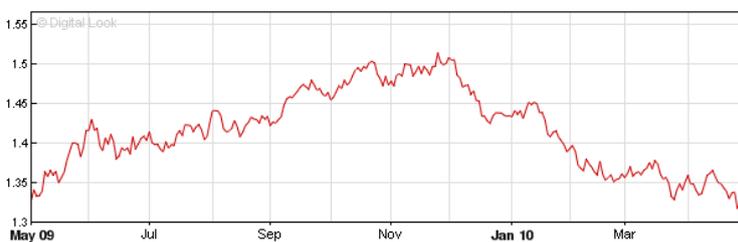
### 1 Pound Sterling = US Dollars



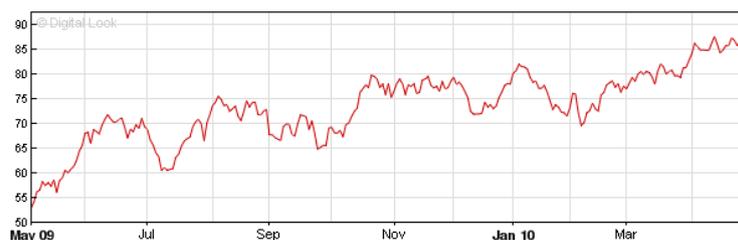
### 1 Pound Sterling = Euros



### 1 Euro = US Dollars



### Brent Crude Oil: US Dollars/Bbl



## Highspeed News...

May 2010

[www.kirkprocess.com](http://www.kirkprocess.com)

### What we do...

For those unfamiliar with our company, we are a process engineering business providing design support and specialist vessel internals to the oil, gas and petrochemical industries.

### Market View...

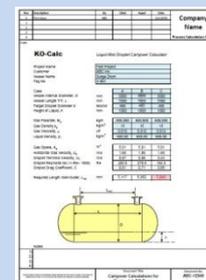
Against a background of globally weak markets and suppressed confidence, the trend towards firming in oil and key commodity prices indicates optimism for a recovery in demand led by Asia and gradually taking root in the USA and Europe. How and when this translates into real project commitments will depend on the energy companies views on how solid the economic recovery is. With plenty of challenges in each region we can probably expect a patchy outlook for major contracts during 2010 before anyone makes large strategic investment commitments once again.

### News from KIRK Process Solutions...

#### KIRK PROCESS OPENING SOON IN CHINA

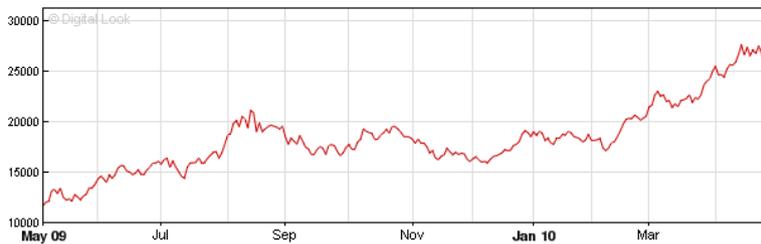
KIRK Process Solutions has agreed a deal to open a branch in China to offer local and regional customers access to our design services and specialist range of internals.

#### SEPARATOR SOFTWARE LAUNCHED

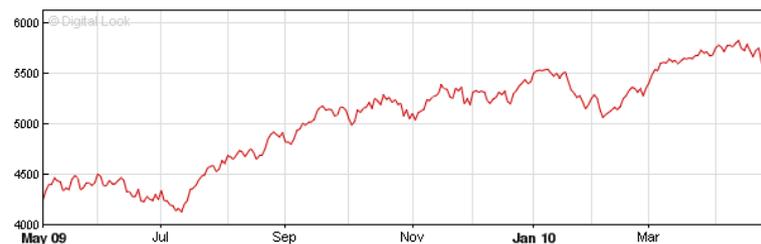


A comprehensive range of competitively priced design spreadsheets for horizontal and vertical gas/liquid separator sizing and simulation has been launched and is selling fast. More details on our website, or to register your interest please e-mail us.

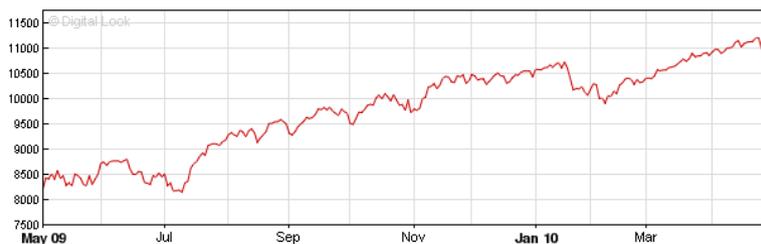
**Nickel Price: US Dollars/tonne**



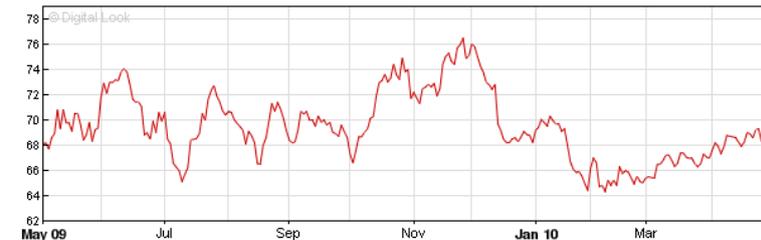
**London FTSE-100 Stock Market Chart**



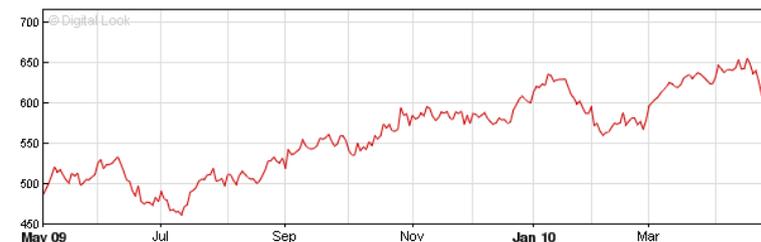
**NY Dow Jones Stock Market Chart**



**Exxon-Mobil Corp. Share Price**



**BP Share Price**



## Contract Awards & Deliveries...

### FWKO DESIGN FOR BAHRAIN

KIRK Process Solutions has been assisting a customer in India with the recommendation of coalescing internals to install into a new free water KO vessel to improve the oil/water separation performance using our specialist simulation software.

### HIGHSPEED DELIVERY FOR KUWAIT

Ordered by HAT International Limited on behalf of a UK Process House, these 400 axial cyclones are being completed now and will be used in 2 large fuel gas conditioning drums for a new power plant in Kuwait under construction by Hyundai.



### SEPARATOR DESIGNS FOR EGYPT & ALGERIA

KPS has been supporting a client in Italy with the detailed process and internals design (including coalescer packs) of various separators for operators in Egypt and Algeria.

DESIGN GUIDE

TYPICAL SEPARATOR OPERATING PROBLEMS & SOLUTIONS

<p><b>SEPARATION PROBLEM</b></p>	Liquid carryover in gas	<p>Check levels are correct. Droplets may be too small in all phases – can be caused by poorly performing inlet distributors or excessive inlet velocity or throughput. Is there a good liquid distributor to prevent channelling? Foam might be forming due to contamination, treat with antifoams or special internals. Emulsions can be caused and treated similarly. Is the demister in good condition, correctly sized and the appropriate type for the operating conditions?</p>
	Gas carry-under / blow-by in liquid	
	Oil carryover in water	
	Water carryover in oil	
<p><b>CAPACITY PROBLEM</b></p>	High gas side pressure drop	<p>If capacity is gradually dropping despite constant feed conditions, check the outlets and any demisters and coalescers are not gradually blocking with solids, waxes or deposits. To boost capacity and maintain performance you may need to add or enhance some or all of the internals.</p>
	Operating pressure falling	
	Need more capacity but same spec	
<p><b>INSTABILITY PROBLEM</b></p>	Levels difficult to control	<p>Gas/liquid interface can be blurred by foam; oil/water interface can be blurred by emulsions. High levels of solids could be occupying liquid volume. Controls should not fight each other. If unpredicted slugs are being experience try varying capacity regularly to force them through before they are too large.</p>
	Surges and slugs experienced	
	Pressure surges	

## INDUSTRY NEWS & HEADLINES

Courtesy of [www.yourprojectnews.com](http://www.yourprojectnews.com)

### Samsung Awarded a \$1.5 billion USD Shah gas development contract (package #4) from the UAE's ADNOC

Samsung Engineering will head all engineering, procurement, construction and pre-commissioning on a lump-sum-turn key basis to build an offsite and utilities facility for the 1 billion cubic feet per day gas development complex. The facility is in the Shah region, 180 km southwest of Abu Dhabi and is set for mechanical completion on August 2013.

Friday, Apr 30, 2010

### Petrobras announces contract for pre-salt development

The Company signed a letter of intent with Engevix Engenharia S.A. to authorize Engevix to start up the procurement services for the construction of eight FPSO ("Floating, Production, Storage and Offloading") hulls. These units are expected to be allocated in the pre-salt area of Santos Basin.

Friday, Apr 30, 2010

### Shell floating LNG technology chosen by joint venture for Greater Sunrise project

Subject to final detailed agreements, government approvals and a final investment decision Shell will operate the FLNG facility and manage the design and build phases of the FLNG project for the Sunrise Joint Venture participants.

Thursday, Apr 29, 2010

### Jacobs Receives Three-Year Contract from DuPont

Jacobs Engineering Group Inc. (NYSE: JEC) announced today that it was awarded a contract from DuPont, one of the world's most innovative companies, to provide engineering, procurement and construction management services (EPCM) under a Master Services Agreement (MSA) for the company's operations in Europe, Asia and North America. Under the three-year MSA, Jacobs will execute projects at DuPont manufacturing facilities.

Tuesday, Apr 27, 2010

### Sasol Limited board approved construction of new ethylene purification unit

The Sasol Limited board has recently approved the construction of a R1.9 billion ethylene purification unit at its Sasol Polymers plant in Sasolburg. The plant is expected to go on stream in the second half of 2013 and will be ramped up to full capacity by 2015.

Tuesday, Apr 27, 2010

### CB&I Awarded a Redefined FEED Contract for Kashagan Full-Field Project Development in Kazakhstan

CB&I (NYSE: CBI) announced today that, in a joint venture with WorleyParsons and Aker Solutions, it has been awarded an updated front-end engineering and design (FEED) services contract from Shell Development Kashagan B.V. for Phase II of the full-field development of the Kashagan oil field in Kazakhstan. The updated contract, valued at GB£170 million (US\$293 million), replaces an earlier GB£90 million contract awarded at the end of 2008.

Monday, Apr 26, 2010

## AMEC takes on key role in Xcite's Bentley Field development

AMEC, the international engineering and project management company has been appointed by Xcite Energy Resources Ltd (XER) to undertake consultancy work to help develop the Bentley heavy oil field situated in the North Sea, 160 kilometres east of the Shetland Isles.

Monday, Apr 26, 2010

## Petrofac Secures New North Sea Contract with Britannia

Petrofac, the international oil & gas facilities service provider, has confirmed that its Offshore Engineering & Operations business has secured a new contract with Britannia Operator Limited (BOL). The deal, worth £35 million over five years with a further five year extension option, will see Petrofac continue to provide operations and maintenance support services for Britannia's ongoing operations in the central North Sea.

Monday, Apr 26, 2010

## GE Oil & Gas awarded \$100million contract El Merk project in Algeria

In a contract valued at approximately US\$100M, GE Oil & Gas will supply Petrofac with turbo compression equipment for Groupement Berkine's El Merk central processing facility (CPF) in the Berkine Basin of Algeria.

Friday, Apr 23, 2010

## Dominion and Exterran Holdings Announce Agreement for Two Natural Gas Processing Plants in Appalachian Basin

RICHMOND, Va. and HOUSTON, April 20 /PRNewswire-FirstCall/ -- Dominion (**NYSE:D**), one of the nation's largest energy producers, and Exterran Holdings, Inc. (**NYSE:EXH**), a premier provider of oil and natural gas processing and compression services, will team up to provide increased natural gas processing in the Appalachian Basin.

Wednesday, Apr 21, 2010

## Aker Solutions to supply MEG reclamation unit to Noble Energy

The contract award affirms Aker Solutions' position as the world's leading provider of MEG reclamation technology, which removes the possibility of blockages in subsea pipelines, by preventing ice and hydrate formation. "This contract shows that Aker Solutions has gained significant trust in the MEG reclamation market and the new contract gives us the opportunity to work with yet another important client, which is Noble Energy," says Børre Sveen, president of Aker Solutions' process systems business in Norway.

Monday, Apr 19, 2010

## Foster Wheeler Awarded Refinery Modernization Contracts by PETROM in Romania

Foster Wheeler AG (Nasdaq: FWLT) announced today that a subsidiary of its Global Engineering and Construction Group has been awarded contracts by PETROM S.A. for investments which form part of PETROM's Petrobrazi Modernization Project, a major refinery modernization project being implemented at the Petrobrazi Refinery in Ploesti, Romania. PETROM is majority-owned by OMV AG of Austria and is described as the largest oil and gas producer in Southeast Europe.

Wednesday, Apr 14, 2010