



**Rawell has entered into a new Dutch joint venture**

electrical or mechanical devices.

IAC will also present the Salarollpump peristaltic pump specifically designed for very viscous oil with both high suction and discharge, and also for access to difficult and remote areas and very easy to use.

**Pruftechnik Condition Monitoring** is a specialist in the supply and installation of ATEX approved vibration analysis and condition monitoring systems on UK petrochemical sites. Applications vary from the monitoring pump and motor sets to vacuum pumps; all achieved by using ATEX approved instrumentation and installation.

The company is experienced in installation on tank storage sites in the UK having supplied and installed on line condition monitoring equipment on eight UK sites. These on line systems are installed to permanently monitor pumps and motors for operating performance and vibration condition. Preset vibration alarms warn engineers of impending problems whether it be dry running through lack of adequate lubrication or more fundamental problems caused by poor installation or excessive component wear. The bottom line is to prevent catastrophic failure and subsequent plant operation down time.

Pruftechnik has achieved this by using its Atex approved Vibronet Signalmaster system, a system that allows for easy site installation with cable runs confined to a minimum. The Signalmaster system utilises a patented single string sensor drive system which requires no additional power amplification even when cable runs are as long as 1,000 metres.

Two companies producing unique and innovative products have teamed up to offer a wider range of

solutions for containment lining and corrosion protection to the petrochemical, oil and gas sectors. Secondary containment lining specialist **Rawell Environmental** has joined forces with the Netherlands-based Stopaq to actively promote Stopaq's viscous-elastic technology within the UK market.

Stopaq solutions are crucial for long-term protection against the damage caused by water infiltration and corrosion. Stopaq's patented product range offers high corrosion protection and improvement of the entire cathodic protection system. The similarities between both companies and their products are clear; both products are manufactured from natural materials, both are also non-toxic and self-healing, and both have proven long-term performance.

The affinity does not end there. Stopaq installation is quick and easy, and has excellent adhesion to any surface like PE, PP, FBE or bitumen without requiring a primer. Stopaq is impermeable to oxygen and water, and self-healing when slightly damaged. Minimal surface preparation and PPE are required, and Stopaq does not age, crack, tear or become brittle. It is harmless to people and the environment.

Likewise, Rawmat products require minimal surface preparation; they are laid like a carpet, simple to joint and fix to tanks and bund structures, and can be covered with existing materials from within the bunds. The membrane remains flexible and provides a cost-effective alternative to concrete.

Rawell is vigorously promoting Stopaq's unique product offerings to the industry. Stopaq products are complementary to Rawell's

own distinctive product range, and support Rawell's commitment to first-class containment solutions.

#### **Software and training solutions**

Regulatory and economic requirements for the business control of receipt, storage and delivery of product are more challenging today than they have ever been. These continual business challenges require comprehensive, open, flexible and cost effective management systems. **Fma Systems** has succeeded in a volatile industry by pioneering software solutions and forging strong strategic alliances and technical partnerships.

It continues to implement and enhance solutions worldwide, whilst recently in the UK, Fma systems successfully implemented an Fma DepotVisor II and Isoil Impianti Spa Vega II Electronic Head solution – the system has been designed to be used in an unmanned operation, allowing loading to take place 24 hours a day without additional operational staff. In addition daily reports are available displaying product by company, meter and driver plus internet connection allows remote access to any of this information.

Fma DepotVisor II and Vega II provides a totally flexible solution for product security, optional gate access control, produce receipt and tank gauging – all at an economical cost.

Located in Oxfordshire, Fma systems offers a complete consultancy and engineering service from conception to final commissioning, including design, construction and installation of unloading and loading skids, tank measurement, blending, access and management control.

In the current business climate it sees that many oil storage and distribution companies require stronger controls and efficiency, therefore there is a greater reliance on companies like it to become a repository of specialist knowledge and skills for these activities.

Pressure /vacuum valve and flame arrester manufacturer **Protego** has developed a new programme which is now available for download from its website. The new Protego

sizing programme calculates the venting requirements for normal and emergency venting of atmospheric and low pressure storage tanks according to the new ISO 28300 Standard.

In addition to the new ISO 28300 venting requirements the sizing programme also covers calculations according to API 2000 5th Edition and TRBF 20. The programme allows the user to easily determine the required volume flows. The user can then size a range of Protego valves including pressure/vacuum relief valves devices both with and without flame arresters and emergency vents.

Since exhibiting at TSA 2009 **TAS Engineering Consultants** has been acquired by GSE Systems. GSE, based in Baltimore, Maryland US and Glasgow, UK is a global provider of real-time simulation and training solutions to the power, oil and gas, process, manufacturing and government sectors. The combination of world class simulation technology from GSE and strong project management, electrical and control engineering will allow TAS to provide customers with an enhanced service from design concept through plant commissioning to operational support and training.

Over the last 12 months TAS Engineering Consultants has seen a marked increase in the number of projects it has undertaken specifically for bulk storage terminals.

It is currently providing a turn-key solution for a storage facility on Canvey Island, where its expertise in instrumentation, control and automation engineering and electrical design capabilities are combining to deliver a total solution to its client.

It continues its ongoing relationship with Vopak, Seal Sands; with upgrades and expansions to their tank gauging and road loading systems.

Its service in functional safety management, which ensures its clients maintain compliance with IEC 61508 / 61511, has developed further. It can now offer functional safety system health checks – a comprehensive audit of current methodologies and practices, delivering a detailed gap analysis and improvement plan.