

Q.Sonic-**plus** and flow computer FC1

New Elster products make their debut at the NSFM Workshop

At the **27th North Sea Flow Measurement Workshop**, Elster-Instromet will show two new products to the public for the first time. These will be the new Q.Sonic flow meter and the new flow computer, which will be shown during this event being held in **Bergen, Norway, from 20 – 23 October 2009.**

The forty-man R&D team of Elster-Instromet's international Ultrasonic Division worked hard to develop a next generation Q.Sonic called 'Q.Sonic-**plus**'. "We're excited," says Martin Bragg, Group Division Director and Head of Research and Development, "to be showing this meter for the first time after two-and-a-half years of development that includes newly filed patents and our new 'MeasCon Technology' trademark



that is our chosen platform for the end-user interface. MeasCon Technology™ is the software platform upon which we will build a whole new customer interface experience that aims to simplify the continuous on-line validation of a meter. By including an established Real-Time Operating System (RTOS) that is optimised for embedded applications that place a premium on maximum reliability, security and testability, the Q.Sonic-**plus** shares software with the avionics industry that offers the highest level assurance. The Evaluation Assurance Level (EAL) for this software is set at 6+, High Robustness, on a scale of 1 to 7, which is why it is used in both military and commercial aircraft systems. We believe that the EAL of our chosen operating system is vital to our customers' applications and to the industry as a whole.

As we develop the product, we will enhance the meter by adding an innovative and patented path configuration taking the MeasCon Technology to new heights. We're thrilled to be attending this 27th NSFMW and exhibiting, for the first time, our new generation electronics with an

Additionally the new flow computer, called 'FC1', will be shown to public. "The development team of the Electronics Division has successfully developed a product that brings the best of two worlds together," Jörg Kern, Director of the Electronics Division, explains. "It combines the full flexibility of the FC2000 applied for the upstream and transmission market with the specific needs and standards of the gas-net F1 flow computer used in the



enhanced path configuration and new transducer technology." As a pioneer in the field of ultrasonic flow meters and manufacturer for over 20 years we know what it takes to develop a product that can be relied upon when metering really matters. To date, Elster-Instromet supplied more than 4000 ultrasonic flow meters worldwide. "We've built upon the strengths of the first generation Q.Sonic, but have enhanced it with a number of major developments in response to our customers' requirements," Martin concludes.

downstream distribution market." The technical concept sets innovative standards as a basis for flexible customer-oriented solutions. A modular system design for both hardware and software, combined with a modern full graphic touch screen display, makes the FC1 a forward-looking, next generation flow computer. In a dynamic world it is important to stay ahead of developments in technology, regulation and practice. This

is particularly true in the field of hydrocarbon flow measurement, where the measurements we make have a high economic importance.

The North Sea Flow Measurement Workshop is the key world event where specialist engineers, involved in all aspects of oil and gas production, meet to review flow measurement methods, techniques and advances. Meeting alternately in Scotland and Norway this annual event successfully bridges the gap between academic flow measurement conferences and scientific seminars. The objective of the conference is to maintain its position as the world venue for presentations and discussions of the state of the art technologies related to oil and gas measurement. The workshop also focuses on the practical applications of this technology.

Jacob Freeke | j.freeke@elster-instromet.com