

News Release

ACHEMA 2015: 150 years of BASF –

From a pioneer to a professional partner

- **High-pressure technology - Patented pressure sensor for pressures of up to 3600 bar**
- **innovative lens design enables multiple control components to be used simultaneously**
- **Surface technology: Functional coating for screw fasteners minimizes maintenance intervals**
- **Information on career opportunities for engineers**

BASF will attend the World Forum for chemical technology and process engineering at theACHEMA exhibition in Frankfurt from June 15 – 19, 2015 on Stand C37 in Hall 8. BASF's Competence Center Engineering and Maintenance will present selected technical products and services along with innovations in the fields of high-pressure technology and surface technology.

Pressure sensor for up to 3600 bar

In chemical production, top priority is given to ensuring safety, environmental protection and maximum plant availability. This demands reliable, accurate measurements for monitoring production plants, and the pressure sensor that we have developed fulfills these standards. "The optimum shape of the sensor and its flush-mounted membrane ensure that dangerous product deposits are avoided", said Heinz-Jürgen Kühn from BASF's Technical Expertise Center for Fittings and Metal Technology. The sensor has been adapted to

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measure pressures of up to 3600 bar by means of innovative patented lens design. This allows for redundant measurement with multiple connections for measuring temperature and/or pressure in reactors and piping systems.

Thermocouples with high responsivity globally performing

The highly responsive thermocouples supplied by BASF have been shown to perform reliably in many LDPE plants worldwide. They have now been optimized by BASF's high-pressure experts for use at pressures of up to 3600 bar, and they respond 2.5 to 3 times more quickly to changes in temperature than conventional models. The special manufacturing process also ensures a high level of safety.

Manufacturing competency for high-pressure equipment

At theACHEMA exhibition, BASF is also focusing on high-pressure equipment for use in the conventional pressure range of 325 bar. BASF manufactures for customers equipment for up to 300 tons, up to 25 m in length and with a diameter of 4 m for use at temperatures ranging from minus 150 °C to plus 500 °C, depending on the specification.

At BASF high-pressure technology has a long tradition: for more than 100 years, the company has been successfully developing and manufacturing components and systems for high-pressure applications. In 1931, Carl Bosch was awarded the Nobel Prize for Chemistry for his innovations in the field of high-pressure industrial chemistry. Today, BASF operates more than 40 high-pressure plants worldwide that run at pressures of up to 3600 bar. As well as process control components, the wide range of products supplied by BASF's centers of expertise for mechanical engineering includes high-pressure equipment, valves, fittings and pipes for use at working pressures of up to 3600 bar. BASF is the only manufacturer in the world that employs its own high-pressure components in its own production plants.

Functional coatings for highest corrosion prevention

At this year's ACHEMA, the Technical Center for Polymer and Surface Technology will concentrate on functional coatings based on polytetrafluoroethylene (PTFE). They have excellent properties and they perform particularly well on screw fasteners. "They prevent contact corrosion and ensure that screws and bolts do not seize up, even after many years in service. This enables maintenance intervals to be reduced and improves the safety of maintenance work substantially", said Dr. Norbert Krollmann, head of the BASF Technical Expertise Center for Polymer and Surface Technology.

Information on career opportunities for engineers

BASF's recruitment staff will again be in attendance on the stand to inform newly qualified engineers and professionals about the career opportunities at BASF. "We are always looking for enthusiastic graduates and engineers with work experience", said Irina Plapp from Talent Resourcing Production & Engineering Functions at BASF. For instance, the BASF Competence Center for Engineering & Maintenance offers the best possible start to a career in engineering: more than 900 specialists currently work there in the fields of chemical engineering, electrical engineering, automation, mechanical engineering and civil engineering, and the numbers are continuing to grow.

Additional information on career opportunities for engineers at BASF is available online at www.basf.com/career

Further information on Technical Services der BASF is available at www.technical-services.basf.com

About BASF

At BASF, we create chemistry – and have been doing so for 150 years. Our portfolio ranges from chemicals, plastics, performance products and crop protection products to oil and gas. As the world's leading chemical company, we combine economic success with environmental protection and social responsibility. Through science and innovation, we enable our customers in nearly every industry to meet

the current and future needs of society. Our products and solutions contribute to conserving resources, ensuring nutrition and improving quality of life. We have summed up this contribution in our corporate purpose: We create chemistry for a sustainable future. BASF had sales of over €74 billion in 2014 and around 113,000 employees as of the end of the year. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (AN). Further information on BASF is available on the Internet at www.basf.com.