

**f-cell from September 26 - 27, 2011 in Stuttgart**

Eyth-Saal (Haus der Wirtschaft), Stand 43

Hydrogen and fuel cell joint exhibition stand

## **Schunk Group will present fuel cell stacks and bipolar plates**

*Heuchelheim/Wettenberg, Germany, August 31, 2011:* At the f-cell show in Stuttgart on September 26-27, 2011, Schunk Bahn- und Industrietechnik GmbH and Schunk Kohlenstofftechnik GmbH will be presenting their fuel cell stacks and bipolar plates.

In March 2011, the Schunk Bahn- und Industrietechnik stack concept was certified by "TÜV Süd" in accordance with DIN EN 62282-2. The entire product line is based on the same modular design which ensures easy system integration. The division of fuel cell modules into separate 360W stacks provides great flexibility with respect to the output voltage and current. A clever cooling solution based on tap water plus additives reduces system and maintenance costs. Furthermore, in this way the stack can be used in a considerably wider range of applications in comparison to air-cooled stacks. Development costs as well as operating costs for system integrators and operators are reduced because the sensible gradation of the output power in 360W increments saves costs in terms of integration into scalable system solutions. In successful applications in mining operations and lighthouses, systems based on the Schunk Stack, have already proven that they are tremendously robust. Together with the closed cathode, the compact design makes the modules highly suitable for everyday use, even under high environmental stress.

Sister company **Schunk Kohlenstofftechnik GmbH** manufactures bipolar plates based on a graphite composite for use in PEM, HT-PEM and direct methanol fuel cells. Thanks to their optimized composition, it has been possible to increase the maximum permissible application

temperature in HT-PEM fuel cells considerably. At the same time, the chemical stability of the bipolar plates was increased, which ensures a longer service life in HT-PEM systems. When improving the material composition, Schunk was able to rely on its many years of experience in shaping processes to manufacture high-quality plates as fully-formed parts for HT-PEM fuel cells using pressing technology.

Schunk is able to further expand its market-leading position in the field of DMFC and LT-PEM fuel cells with these high temperature-resistant bipolar plates. The high quality level of the plates makes trouble-free production possible, even where fuel cell stacks are produced in large quantities.

*Schunk Bahn- und Industrietechnik GmbH and Schunk Kohlenstofftechnik GmbH are part of the Schunk Group, an internationally operating technology company with more than 60 operative companies in 28 countries. Specializing in system and material technology, the group of companies offers a broad spectrum of products and services in the fields of carbon technology and ceramics, environment simulation and air conditioning technology, sintered metal technology and ultrasonic welding technology. In 2010 the Schunk Group, which has around 8,200 employees, generated a consolidated turnover of approx. 880 million euros.*

**Contact:**

Schunk Group  
Katharina Hadel

Rodheimer Straße 59  
35452 Heuchelheim, Germany  
Phone: 0641 / 608-1383

[katharina.hadel@schunk-group.com](mailto:katharina.hadel@schunk-group.com)

[fuelcellstacks@schunk-group.com](mailto:fuelcellstacks@schunk-group.com)  
[www.schunk-fuelcells.com](http://www.schunk-fuelcells.com)