

February 25th, 2008

Fraunhofer IKTS inaugurates new test centre with FuelCon test systems

The Fraunhofer-Institute for Ceramic Technologies and Systems (IKTS) located in Dresden (Germany), has recently opened its new SOFC test centre for verifying the practical performance of SOFC stacks and systems with the help of FuelCon's test stations. At the inauguration of the test centre, the IKTS described the advanced stage of maturation of ceramic fuel cells as the main reason for establishing the new testing centre. During the following tour through the new-build facility, the invited guests were able to witness the ultra-modern test laboratory that is equipped with several Evaluator-S test systems as well as an autonomous gas supply.



Source: Fraunhofer IKTS Dresden

The testing stations include not only sophisticated process engineering with fuel gas and air pre-heater, they are also equipped with integrated impedance analyzers from FuelCon's diagnostic line TrueData and several additional features. This enables Fraunhofer IKTS to analyze the long-term performance, duty cycle stability and poisoning durability of SOFC fuel cells. In addition, the Evaluator test systems allow the simulation of various gas scenarios. The performance test results from the Evaluator test stations will contribute to the further optimization of high temperature fuel cells and their application in decentralized power supply and Auxiliary Power Units (APU). It is anticipated that this will lead to a growing support for SOFC fuel cells as a widespread, environmental-friendly alternative e.g. for household energy supply.

Fraunhofer-Institut für Keramische Technologien und Systeme (IKTS):

The focus of the Fraunhofer IKTS Dresden is the development of advanced materials, technologies and components concerning ceramic high performance materials as well as hard metal / cermets. The various development work spans the whole value chain to the point of

proto typing assembly. Therefore the Fraunhofer IKTS is characterized by a threefold competence, starting with the material know-how up to the manufacturing technology and the integration of systems or products. Furthermore, the combination of the two technology platforms "structural" and "functional ceramics" allows the integration of additional functions in ceramic components. This enables realizing the manufacturing of innovative products with an explicit added value. With the long experience in building and testing planar SOFC-stacks, the institute is excellent in the smart using of the impedance spectroscopy based on physically theoretical analysis of the experimental results.

About FuelCon:

FuelCon is the global leading supplier of test and diagnostic systems for fuel cells, batteries and super capacitors. For years, the FuelCon name is recognized for extraordinary product quality, high technical standard, dedication to customer service and innovation. With its test station series "Evaluator" the company manufactures test rigs for all typical fuel cell technologies like PEM, DMFC, SOFC or MCFC in a power range between a few watts up to 150kW fuel cell performance. Furthermore, FuelCon offers with the product lines TrueData and TrueXessory a various portfolio of diagnostic equipment and accessories. Aside its headquarters in Germany, FuelCon is with its subsidiary FuelCon Systems Inc. and several Representatives active in Europe, North America and Asia.

FuelCon AG:

Ms. Andrea Bartels

Steinfeldstrasse 3

D 39179 Magdeburg - Barleben

Tel: + 49 39203 961330

Fax: + 49 39203 961339

Andrea.Bartels@FuelCon.com

www.FuelCon.com