



# CERAMIC FUEL CELLS LIMITED

Clean power for your home

## CERAMIC FUEL CELLS LIMITED

### AWARDS GERMAN FUEL CELL RESEARCH PRIZE

**Hannover, 22 April 2008:** Ceramic Fuel Cells Limited, a global leader in high temperature (SOFC) fuel cell development, today awarded a prize to a promising young German fuel cell researcher Mr Helmut Kronemayer, for his innovative work in the SOFC field. The jury recognised his innovative work on using lasers to precisely measure high temperatures in combustion systems.

Ceramic Fuel Cells' Managing Director Mr Brendan Dow, together with Prof. Dr. Detlev Stöver, Research Director Energy at Forschungszentrum Jülich, awarded the prize to Mr Kronemayer in a joint ceremony at the Hannover Fair, the world's leading showcase for industrial technology.

At last year's Hannover Fair Ceramic Fuel Cells announced a partnership with Forschungszentrum Jülich to collaborate on research and development for solid oxide fuel cell systems.

The prize awarded by Ceramic Fuel Cells comprises a cash payment of 2.000 Euros and a return trip to Melbourne, Australia, for a work experience internship at Ceramic Fuel Cells' extensive research laboratory and pilot production plant. Ceramic Fuel Cells will again offer the student prize in 2008.

Mr Kronemayer, from Mannheim in Baden-Württemberg, studied chemistry at the University of Heidelberg, before completing a PhD Project at the University of Heidelberg with Prof. Jürgen Wolfrum and the University of Duisburg-Essen with Prof. Christof Schulz.

The prize was awarded for Mr Kronemayer's PhD work on "Laser-based temperature diagnostics in practical combustion systems". Mr Kronemayer developed laser-based measurement methods for measuring gas temperatures with high precision in combustion systems. Measurements with such high precision have not been possible before.

One aspect of Mr Kronemayer's work is the "direct flame fuel cell", where the anode side of a ceramic fuel cell is placed in the hot off-gas of a burner. The unburnt fuel is used by the fuel cell to produce electricity. Mr Kronemayer's developments can increase the power density of the fuel cell, meaning each cell can produce more power.

The judges for the prize, Dr Karl Föger, Ceramic Fuel Cells' Chief Technology Officer, and Prof. Dr. Detlev Stöver of Forschungszentrum Jülich and other leading researchers from both organisations, commended Mr Kronemayer's innovative work as demonstrating the immense flexibility and versatility of solid oxide fuel cell technology.

Ceramic Fuel Cells' Managing Director Mr Brendan Dow said:

*"We are delighted to award this prize to Mr Helmut Kronemayer and we look forward to hosting him in Melbourne. Ceramic Fuel Cells wants to reward excellence and encourage students to get involved in exciting clean energy technologies. We are also building our profile in Germany with leading researchers, of today and tomorrow. This will become important as we build our factory in Heinsberg, North Rhine Westphalia, which is on schedule to be finished by June 2009."*

Mr Kronemayer said:

*"I am honoured to receive this prize. I see it as a culmination of my work in this exciting field. The prize will also motivate me to continue work in this field with enthusiasm. To get this recognition*

*for my R&D work reinforces my view that I have chosen the right career path. My special thanks go to Dr Wolfgang Bessler of the University of Heidelberg and Mr Michio Horiuchi of Shinko Electric Industries in Japan for the excellent collaboration."*

## ENDS

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## NOTES TO EDITORS

### **About Ceramic Fuel Cells**

Ceramic Fuel Cells Limited is a leader in developing solid oxide fuel cell (SOFC) technology which can provide reliable, energy efficient, high-quality, and low-emission electricity from widely available natural gas and renewable fuels. CFCL is developing SOFC products for small-scale on-site micro combined heat and power (m-CHP) and distributed generation units that co-generate electricity and heat for domestic use. CFCL is listed on the London Stock Exchange AIM market and the Australian Stock Exchange (code CFU).

In February 2008 Ceramic Fuel Cells announced an investment of €12.4 million in the construction of a manufacturing plant in Heinsberg, Germany for the commercial production of its fuel cell systems. Initial capacity will be 10,000 units per year. The project is being supported by the North Rhine-Westphalian Government.

In February Ceramic Fuel Cells also announced a volume order from Nuon, The Netherlands' largest energy company. CFCL and Nuon have agreed on a set of performance targets for a commercial m-CHP unit. On CFCL's achievement of these targets, Nuon will order 50,000 fuel cell systems, to be delivered over a five year period.

More details about Ceramic Fuel Cells and the student prize are at [www.cfcl.com.au](http://www.cfcl.com.au)

### **About Forschungszentrum Jülich**

Established in 1956, and now with more than 4,000 staff, students and researchers and an annual budget of more than 360 million Euros, Forschungszentrum Jülich is one of the largest research institutions in Europe. Forschungszentrum Jülich is one of the 15 Helmholtz Research Centres in Germany, and is jointly funded by the German Federal government and the North Rhine-Westphalia regional government.

Energy is a focus research area of the Research Centre, and since the mid 1990s FZ Juelich has been working in the field of SOFC. Approximately 100 staff from the Institute for Energy Research (IEF) and develop and test new materials, model stacks and systems, fabricate fuel cells, construct and test stacks and full demonstration systems.

<http://www.fz-juelich.de>

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