

Ir. Vikrant Venkataraman

Doctoral Researcher

School of Chemical Engineering

Contact details

Email v.venkataraman@pgr.bham.ac.uk (<mailto:v.venkataraman@pgr.bham.ac.uk>)

School of Chemical Engineering
University of Birmingham
Edgbaston B15 2TT
Birmingham
United Kingdom

About

Vikrant is a Doctoral Researcher with the fuel cell group at the *School of Chemical Engineering* and is presently working on the research project titled '**Fuel Cell integration for refrigeration applications**' along with *Unilever*.

Qualifications

Master of Science, Sustainable Energy Technology, *Technical University of Delft, Netherlands*

Bachelor of Engineering, Electrical & Electronics Engineering, *Sri Venkateswara College of Engineering, ANNA University, India*

Biography

Vikrant graduated from *Technical University of Delft, Netherlands* in the year 2012 with a masters degree in **Sustainable Energy Technology**. He specialized in fuel cell technology in his final year, working in the field of Solid Oxide Fuel Cells (SOFCs) for his master thesis. His master thesis was titled '**SOFC anode performance analysis with point and pattern electrodes**' where he not only made his own cells but also tested them in the fuel cell laboratory to evaluate the performance of the anode and subsequently validated his results with mathematical modelling and comparison with other literature data.

Presently he works as a Doctoral Researcher with the fuel cells group at the School of Chemical Engineering from April 2013. He is sponsored by the university on an overseas research scholarship and works in unison with *Unilever* for his current research project.

Prior to pursuing his masters degree, Vikrant worked as Deputy Manager at Ashok Leyland's Technical Centre in Chennai, India. Ashok Leyland is India's second leading commercial vehicle OEM. During his period at Ashok Leyland he was working with the 'Vehicle Electricals & Electronics' group where he carried out design and development activities related to vehicle electrical systems.

He also worked with a Dutch start up company 'Tvilight BV' for a period of six months where he helped them develop the 'Intelligent Street Lighting' system for energy saving.

Vikrant's field of expertise lies in vehicle electrical & electronic system integration, fuel cell systems, hybrid vehicle architecture and new product development. He has also spent a period of six months at the Material Science laboratory at TU Delft, learning different material science techniques and has also considerable experience in the fuel cell laboratory with single cell test stations.

PhD opportunities

Research

Supervisors: Prof Steinberger Wilckens, Prof Andrzej Pacek, Dr. Aman Dhir

The brief overview of the research project is how to use a Fuel Cell in a refrigerated truck application where the fuel cell not only provides traction power for the vehicle but also is able to run a sorption refrigeration system by providing sufficient heat.

Other activities

Vikrant is a marathon runner and has run several marathons across the world. His other interests include cycling and chess

Publications

Master thesis: Selected for 10th International symposium on Solid Oxide Fuel cells (SOFC) held between 27 Jan to 1 Feb 2013 at the 37th International Conference & Exposition on Advanced Ceramics and Composites (ICACC) at Florida, USA