

1st KOR-UK Joint Workshop on Hydrogen & Fuel Cells for Future Energy Initiatives

November, 7-8th, 2013
Lower College Hall, University of St Andrews



2013 Inspiring Technology: Joint KOR-UK Workshop for Future Energy Solutions

Organizers:  

Korea: Prof. Jong-Shik Chung (POSTECH)

United Kingdom: Prof. John T.S. Irvine (University of St Andrews)

Supporters:

Korea: MOTIE (Ministry of Trade, Industry and Energy)

POSTECH (Pohang University of Science & Technology)

United Kingdom: BIS (Department for Business, Innovation and Skill)

SDI (Scottish Development International, Scotland)

EPSRC (Engineering and Physical Science Research Council)

University of St Andrews





**7-8th November
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Introduction

1st joint workshop on Hydrogen & Fuel cells between Korea and United Kingdom at the University of St Andrews will open up a new window of collaboration for next generation energy between the two countries. It will focus on advances made in research, development and business promotion of leading institutes and industries in the areas of hydrogen, fuel cells and renewable energy. The University of St Andrews, with 600 years of history, is located in the medieval town of St. Andrews on the east coast of Scotland.

Technical Program

The one-day technical symposium will feature parallel presentation of invited and contributed papers and posters. To encourage collaboration between Korea and United Kingdom, the technical program addresses current results, challenges and trends in research, development, engineering and industry of hydrogen and fuel cells technologies, including renewable energy. The presentations will include the following topics:

- State-of-the-art and novel materials and fabrication processes
- Products ideas, test and operation, degradation and optimization
- Market driven-activities, business models and collaboration idea
- Current R&D and future trends in renewable energy technology

Workshop Events

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|---------------------------------|----------------------------------------|---------------|
| ❖ 7 th November 2013 | Welcome & Registration | 10:00 |
| ❖ 7 th November 2013 | Presentation Session I | 10:30 ~ 12:30 |
| | Presentation Session II | 13:30 ~ 17:30 |
| ❖ 8 th November 2013 | Technical Tour (for Korean delegation) | |

Registration is free but essential for this event as places may be limited. On line registration can be found at the following link: [Registration Form](#)

Further details including a programme will be published shortly at the following link: www.h2fcsuper-gen.com/research/mou

If you have any difficulties with registration or require information regarding the venue, please contact Candice Mitchell: cm100@st-andrews.ac.uk

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Lower College Hall, University of St Andrews
7 –8 October 2013

Programme

Day 1 7th November 2013.

- 10:00 Registration
- 10:30 Welcome and Introduction (Opening Talk)
- 10:40 **Dr. Hugh Sutherland, AFC Energy, UK**
 “*AFC Energy: New thinking in Alkaline Fuel Cells*”
- 11:00 **Associate Prof. Gun Tae Kim, UNIST, KOR**
 “*Active and Durable Double Perovskite Cathode for IT-SOFC*”
- 11:20 **Dr. Jung-Sik Kim, University of Loughborough, UK**
 “*Sensor Technologies related to SOFCs*”
- 11:40 **Dr. Sung Pil Yoon, Korea Institute of Science and Technology, KOR**
 “*Surface Modification of $Sr_{0.92}Y_{0.08}TiO_3$ Anode for Solid Oxide Fuel Cells*”
- 12:00 **Prof. Peter Slater, University of Birmingham, UK**
 “*Developing New Fuel Cell Materials through Alternative Doping Strategies*”
- 12:30 **Lunch (Lower College Hall)**
- 13:30 **Prof. Jong-Shik Chung, POSTECH, KOR**
 “*PEMFC Degradation via Pt Dissolution and Migration*”
- 13:50 **Prof. Paul Shearing, University of College London, UK**
 “*Understanding the Role of Microstructure in SOFC Performance*”

- 14:10 **Dr. Rak Hyun Song, Korea Institute of Energy Research, KOR**
“R&D Activities of SOFC Technology at KIER”
- 14:30 **Dr. Adam Bone, Ceres Power, UK**
“Low-Cost, REDOX Stable, Low Temperature SOFC for Multiple Applications”
- 14:50 **Assistant Prof. Jung Hyun Kim, Hanbat National University, KOR**
“Research Trends and Projects of Energy Devices in Hanbat Natl’ University”
- 15:10 **Dr. David Book, University of Birmingham, UK**
“Advances in Hydrogen Storage”
- 15:35 **Coffee Break**
- 16:00 **Prof. Nigel Mark Sammes, POSTECH, KOR**
“SOFC R&D Activities at POSTECH”
- 16:20 **Dr. Gerry Agnew, LG Fuel Cells, UK**
“An update of SOFC development at LGFCS”
- 16:40 **Research Prof. Jae Ou Choi, POSTECH, KOR**
“Activities of Hydrogen Fuel Cell Test-Bed for Industry Promotion in Korea”
- 17:00 **Prof. John T. S. Irvine, University of St Andrews, UK**
“Microengineering of SOFC Electrode Interfaces”
- 17:30 **Wine Reception**
- Welcome Remark
 UK: Prof. John T.S. Irvine (University of St Andrews)
 KOR: Prof. J.S.Chung (Pohang University of Science and Technology)
- 1830 Close of Workshop
- 1900 *Dinner, Rusacks Hotel, St Andrews, by invitation*

8 November – Technical Tour for Korean Delegation

- 10:00 Technical Tour (School of Chemistry, University of St Andrews)
- 11:00 Tour (University of St Andrews or Edinburgh Castle)
- 14:00 Departure to Edinburgh Airport (from St Andrews)
- 14:00 Departure to Edinburgh Airport (from St Andrews)