



The Combustion Institute

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Roger Cracknell

Candidate, 2016 CI Board of Directors

Reasons for Nomination

During his 21 year career in Shell, Roger Cracknell has consistently championed collaborative and externally-focused activities with universities, open innovation companies, automotive manufacturers and additive companies. For example, a recent collaboration between Shell and AkzoNobel was named as overall winner in the 2014 AkzoNobel RD&I Innovation Excellence Awards.

In 2015 Roger was appointed to the role of Technology Expert for Combustion Chemistry within Shell.

Roger has served a six-year term on the committee of the British section of the Combustion Institute, and sits on the Board of the Combustion Engines and Fuels Group of the Institute of Mechanical Engineers. He has a long record of organising conferences and seminars to serve the combustion community.

Roger has the credibility within both industry and academia to help steer the Combustion Institute away from a focus on purely academic pursuits, and instead encourage a greater emphasis on practical combustion challenges. As a part of this, Roger would be committed to improving the attractiveness of the International Symposium to industrial attendees, as currently it is in danger of being considered irrelevant by the industrial community.



Roger Cracknell

See next page(s) for candidate's curriculum vitae.

ROGER. F. CRACKNELL

PROFILE

Roger Cracknell joined Shell in 1994 following postdoctoral research in Imperial College and Cornell University. In 2015 he was appointed to the role of Technology Expert for Combustion Chemistry within Shell. Roger has had a variety of previous roles within Shell, including leading a research team spread over 3 continents understanding and exploiting the fundamental science behind the development of advanced fuels for internal combustion engines.

Roger is a Fellow of the Royal Society of Chemistry, a Visiting Professor of Mechanical Engineering at the University of Leeds, and Honorary Professor of Mechanical Engineering at the University of Birmingham. Roger is a member of various academic and industry committees and has authored more than 100 refereed journal and conference papers and has 6 granted patents. He has been awarded, with co-authors, the 2010 Sugden prize for the most significant UK contribution to Combustion research, the 2014 SAE Arch T. Colwell Merit Award, the 2014 SAE Henry L Horning Award, and is a two time recipient of the SAE award for Excellence in Oral presentation.

EDUCATION

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|------|------------------------------------|---|
| 1987 | B.Sc. Hons. <i>Chemistry</i> | Imperial College |
| 1990 | Ph.D. <i>Physical Chemistry</i> | Imperial College |
| 1998 | Post Graduate Diploma in Marketing | Manchester Business School/ Chartered Institute of Marketing |

COMMITTEES

- Chair of CONCAWE (i.e. European Oil Industry) special task force on advanced combustion and former member of CONCAWE alternative fuels task force, whose “Well to Wheels” study provides the science behind the EU fuels directive
- Legal Entity Appointed Representative for EU funded projects in Shell Research Limited (e.g. Shell Marie Curie programme in which post-docs work at Shell locations)
- I. Mech. E Combustion Engines and Fuels Group - committee member.
- Chaired/organized I.Mech.E. seminars: “Fuels for low CO₂ Combustion” (November 2010) and “Future Fuels 2016: Automobile, Marine and Aviation” (2016) with speakers including UK Civil Servants and Government minister.
- Organising committee of 2014 SAE Powertrains Fuels and Lubes Conference – Chaired special session on future fuels and arranged to have Shell Chief Scientist as keynote.
- 2004-2012 Treasurer of Combustion Institute (British Section)
 - Member of awards committee for the 2007 Gaydon Prize, 2009 Hinshelwood Prize, 2010 Hinshelwood Prize, 2011 Sugden Prize
 - Organizer and chair of several Combustion Institute one day meetings including “Soots” (2009) and “Future Internal Combustion Engines and their Fuels” (2012)
- Industrial advisory board for Combustion Institute (International)
- Programme Advisory Committee for 2016 International Combustion Symposium
- Chair of Organising Committee of “Towards Clean Diesel Engines 2011”
- Councillor and past Chair of Treuddyn Community Council, Flintshire, Wales
- Community Governor at Alun School, Mold, Flintshire Wales