



## SCIENCE SYMPOSIUM

### Next Generation Liquid Biofuels and Co-Products

#### PROGRAMME

Technical Meeting: Monday 13 December

- 8.30 am Registration
- 9.10 am Welcome
- 9.25 am **Jack Saddler**  
Professor of Forest Products Biotechnology/Bioenergy, University of British Columbia  
Task Leader of IEA Bioenergy Task 39: Commercializing Liquid Biofuels  
*Progress in the commercialisation of biomass to ethanol: evolution of the biorefinery concept and IEA Bioenergy Task 39's contributions*
- 10.10 am Morning tea
- 10.30 am **Jim McMillan**  
Principal Engineer and Group Manager, National Renewable Energy Laboratory  
*Cellulosic biofuels in the USA: Progress and new initiatives*
- 11.15 am **Claus Felby**  
Professor in Wood and Biomass Technology, University of Copenhagen  
*Development of large scale cellulosic ethanol – from nano meter to square kilometer*
- 12.00 pm Lunch
- 1.00 pm **Shusheng Pang**  
Professor and Director, Wood Technology Research Centre, University of Canterbury  
*Biomass to hydrogen-rich syngas and liquid fuels through thermochemical processing*
- 1.20 pm **Yukinori Iwasaki** and Tana Levi  
CRL Energy Ltd., 68 Gracefield Road, Lower Hutt  
*Testing of biomass/lignite blends for gasification*
- 1.40 pm **Rupert Craggs**  
NIWA, PO Box 11-115, Hamilton  
*NIWA's wastewater algae biofuels research*
- 2.00 pm **Owen Catchpole**, J. Ryan, S. Tallon, E. Vagi, P. Dyer, and P. Hoefakker  
Industrial Research Limited, PO Box 31-310, Lower Hutt  
*Fermentation of lipid-bearing micro-organisms with downstream extraction and processing using supercritical fluids to produce high value lipids and biofuels*
- 2.20 pm Afternoon Tea
- 2.40 pm Peter W. Hall, Michael W. Jack, John A. Lloyd, Karl D. Murton, Roger H. Newman, Trevor R. Stuthridge, **Ian D. Suckling**, Kirk M. Torr, Alankar A Vaidya, and Mark S. Watton  
Scion, Private Bag 3020, Rotorua  
*Softwoods for biofuel production: a New Zealand solution*

- 3.00 pm **Line L. Haaning**, Marisa Till, David Goldstone, Graeme T. Attwood, and Vickery L. Arcus  
Department of Biological Sciences, University of Waikato, Hamilton  
*Characterisation of lignocellulose-degrading enzymes from the ruminant bacterium  
Butyrivibrio proteoclasticus*
- 3.20 pm Joseph Bartho, Nick Roberts, Brent Barrett, and **Richard Scott**  
AgResearch Grasslands Research Centre, Private Bag 11008, Palmerston North  
*In planta production of enzymes for use in the preparation of biofuel feedstocks*
- 3.40 pm **Michael W. Jack**, M. Imroz Sohel, and Katharine J. Challis  
Scion, Private Bag 3020, Rotorua  
*Approaches to guiding technology selection and identifying research priorities for New  
Zealand biofuel production*
- 4.00 pm Poster session
- 6.00 pm Close of technical meeting
- 7.00 pm Conference dinner at Skyline Rotorua

Workshop: Tuesday 14 December

- 8.30 am Introduction
- 8.40 am **David Bull**  
Senior Researcher, Parliamentary Commissioner for the Environment  
*Some biofuels are better than others: thinking strategically about biofuels*
- 9.00 am **Brian Cox**  
BANZ Executive Officer  
*Towards a bioenergy strategy for New Zealand*
- 9.20 am Workshop discussion session  
*Accelerating next generation biofuels implementation in New Zealand*
- 10.10 am Morning tea
- 10.30 am Workshop discussion session  
*New Zealand research directions*
- 11.20 am Workshop discussion session  
*Collaboration and communication*
- 12.10 am Summary and conclusion
- 12.20 pm Lunch
- 1.20 pm Close of workshop

The attendance of international keynote speakers to the *Next Generation Liquid Biofuels and Co-Products Science Symposium* has been supported by MoRST and MFAT through the Science Promotion Fund.

Further Symposium details can be found at [www.scionresearch.com](http://www.scionresearch.com). For all enquiries, please email: [biofuels.symposium@scionresearch.com](mailto:biofuels.symposium@scionresearch.com), or contact Katharine Challis on 07 343 5648.