



## **SCIENCE SYMPOSIUM**

### **Next Generation Liquid Biofuels and Co-Products**

#### **PROGRAMME**

8.30 am Registration

9:00 am Welcome **Ian Suckling**, Scion,  
Housekeeping **Martin Atkins**, The University of Waikato

#### SESSION ONE

Chair **Rupert Craggs**, NIWA

9.10 am KEYNOTE SPEAKER  
**Prof. Dr.-Ing. Jörg Sauer**, Institute of Catalysis Research and Technology  
*Research along the value chain: From Catalysts to Processes and Fuel Applications*

9.55 am **Kennie Tsui**, Ministry of Business, Innovation and Employment and  
**Chris Thomson**, Callaghan Innovation  
*Government Science and Innovation Support*

10.30 am *Morning tea and symposium group photo*

#### SESSION TWO

Chair **Mohammed Farid**, The University of Auckland

11.00 am **Paul Bennett, Ian Suckling, Kirk Torr**, Scion  
*IEA Bioenergy: An introduction*

11.30 am **Michael R.W. Walmsley**, University of Waikato  
*Exploring options for reducing carbon emissions in the New Zealand transport sector through to 2050 and the role of biofuels in that future*

12:00 noon **Peter Hall**, Scion  
*Matching biomass resources to marine biofuel demand*

12.30 pm *Lunch*

#### SESSION THREE

Chair **Shusheng Pang**, University of Canterbury

1.30 pm **Karl D Murton, Ian D Suckling, John A Lloyd, Roger H Newman, Kirk M Torr and Alankar A Vaidya**, Scion  
*The effect of wood pretreatment conditions on enzymatic sugar yield for biofuel production from radiata pine*

2.00 pm **John A. Lloyd, Karl D. Murton, Roger H. Newman, Ian D. Suckling, Alankar A. Vaidya, Lloyd A. Donaldson, Kirk M. Torr**, Scion  
*Optimising steaming and attrition conditions during thermo-mechanical pretreatment can increase enzymatic conversion of softwood*

2.30 pm **Poster presentations**

3.00 pm	<i>Afternoon Tea – Poster Session and Beca Amec Poster Award</i>
<u>SESSION FOUR</u>	Chair <b>Ian Suckling</b> , Scion
3.30 pm	<b>Geoff Covey</b> , Covey Consulting <i>Value from biorefineries by producing chemicals</i>
4.00 pm	<b>Abbas Mehrabadi, Mohammed M. Farid, Rupert Craggs</b> , The University of Auckland and NIWA <i>Pyrolysis of wastewater treatment high rate algal pond biomass</i>
4.30 pm	<b>John McDonald-Wharry, Kim Pickering, Merilyn Manley-Harris</b> , University of Waikato <i>Constructing composite materials from solid biomass pyrolysis products</i>
5.00 pm	2016 ABRN Symposium details and symposium close. <b>Ian Suckling</b> , Scion

This Science Symposium is sponsored by Ministry of Innovation, Business and Employment, The University of Waikato, Scion and Beca Amec.



We would also like to acknowledge support from Bioenergy Association.