



# Bioenergy Association of New Zealand (BANZ)

**BANZ Biogas Interest Group  
Presents**

***‘Biogas as a Transport Fuel’***  
18<sup>th</sup> November 2010 (HERA House, Manukau City)

**Who’s Who at the Event?**

**BANZ Websites**

[www.bioenergy.org.nz](http://www.bioenergy.org.nz)

[www.woodpellets.org.nz](http://www.woodpellets.org.nz)

[www.liquidbiofuels.org.nz](http://www.liquidbiofuels.org.nz)

[www.biogas.org.nz](http://www.biogas.org.nz)

## List of Attendees

Name	Organisation
1. Brian Cox	BANZ
2. Guenter Wabnitz	AECOM
3. Don Duff	Flotech / Greenlane Biogas
4. Nick Marshall	Greenlane Biogas
5. Harvey Reid	DieselGas International Limited.
6. Craig Worth	Go-bus Wellington
7. Tony Frost	Ministry of Transport
8. Stephen Heubeck	NIWA
9. Loren Poole	Bioform Ltd
10. Logan Dingle	Transpacific Industries
11. Mike Bourke	Christchurch City Council
12. Rocky Renquist	Crop & Food Research
13. Keith Jones	Uniservices
14. Bob Weston	Entec Services Limited
15. Stuart Roberts	Entec Services Limited
16. Mike Jayne	Entec Services Limited
17. Shaun Bowler	EECA
18. Chris Mc Arthur	EECA
19. Andrew Richards	Fonterra
20. Steve Lepper	DH Lepper Trust
21. Siegfried Zoellner	EHE Ltd.
22. Harry Boerema	Ongas / Vector
23. Jurgen Thiele	CPG Ltd
24. Aaron Findson	Wallace Corporation Limited
25. Caroline Crosby	
26. David Fletcher	Anzco Foods
27. Rob Fullerton	Beca
28. Chris Harris	
29. George Escourt	Scion
30. Gerard Horgan	MAF
31. Wolfgang Schultz	HERA
32. Dean Scanlen	Engineering Outcomes
33. Simon Coughlan	Massey University Student
34. Karl Fuller	Fuller Nautical Limited

<b>Name of Attendee (s)</b>	Brian Cox
<b>Organisation/ company</b>	Executive Officer – Bioenergy Association of New Zealand
<b>E-mail address</b>	brian.cox@bioenergy.org.nz
<b>Tel numbers</b>	(04) 385 3359
<b>Please provide an outline of your activities / interests in relation to the tour/workshop.</b>	
<p>The Bioenergy Association of New Zealand (BANZ) has been established to promote and coordinate the development of a bioenergy industry in New Zealand. BANZ provides a central focus point for liaison with Government agencies, the dissemination of information amongst the industry and long-term positioning of bioenergy into New Zealand's energy system.</p> <p>Members include anyone with a commercial interest in bioenergy - wood processors, foresters, energy suppliers, energy researchers, consultants, manufacturers and investors. Activities are focused around wood energy, biogas and liquid biofuels.</p> <p>The Biogas Interest Group is one of four Interest Groups in BANZ. We also have Interest Groups for Wood Pellets, Wood Fuels and Liquid Biofuels.</p>	
<b>What are you interested in finding out at the Tour/Workshop?</b>	
Promotion of Biogas as a heating and generation option in a variety of situations.	

<b>Name of Attendee (s)</b>	Guenter Wabnitz
<b>Organisation/ company</b>	AECOM
<b>E-mail address</b>	guenter.wabnitz@aecom.com
<b>Tel numbers</b>	(04) 382 2975
<b>Please provide an outline of your activities / interests in relation to biogas.</b>	
<p>Guenter Wabnitz is Convener of the BANZ Biogas Interest Group.</p> <p>AECOM is a global provider of consulting services including the fields of Energy, Environment and Water Infrastructure, and has been involved in numerous biogas projects in New Zealand and overseas.</p>	
<b>What are you interested in finding out at the workshop/Tour?</b>	
Technology, potential markets, economics, social and environmental benefit.	

<b>Name of Attendee (s)</b>	Don Duff & Nick Marshall
<b>Organisation/ company</b>	Greenlane Biogas Ltd,
<b>E-mail address</b>	<a href="mailto:don.duff@flotech.com">don.duff@flotech.com</a> , <a href="mailto:nick.marshall@greenlanebiogas.com">nick.marshall@greenlanebiogas.com</a>
<b>Tel numbers</b>	021 806 308                      021 273 0305
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Harvey Reid
<b>Organisation/ company</b>	DieselGas International Ltd
<b>E-mail address</b>	<a href="mailto:Harvey.reid@dieselgas.co.nz">Harvey.reid@dieselgas.co.nz</a>
<b>Tel numbers</b>	Work04 569 6988 Mob 027 226 4414
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Dual fuel trucks	
<b>What are you interested in finding out at the workshop/tour?</b>	

Craig Worth (Go-bus Wellington)

<b>Name of Attendee (s)</b>	Tony Frost
<b>Organisation/ company</b>	Ministry of Transport
<b>Email</b>	t.frost@transport.govt.nz
<b>Tel numbers</b>	04 439 9042, 021 224 0738
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Taxes and excise duties	
<b>What are you interested in finding out at the workshop/tour?</b>	
How realistic is the application of biogas as a transport fuel	

<b>Name of Attendee (s)</b>	Stephan Heubeck
<b>Organisation/ company</b>	NIWA Hamilton
<b>E-mail address</b>	s.heubeck@niwa.co.nz
<b>Tel numbers</b>	07 8561766
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Conference co-organizer; Conference speaker; Background: For years NIWA has researched and developed simple, low cost anaerobic waste treatment and biogas recovery options based on covered anaerobic pond technology. Our designs help livestock and agricultural processing industries in New Zealand and Australia to improve their environmental performance and extract value, chiefly in the form of biogas energy, from their wastes. Stephan Heubeck was the initiator and one of the driving forces behind the realisation of the biogas to vehicle fuel demonstration project that will be showcased at the conference. This R, D&D work is aimed at establishing biogas transport fuel as an additional, practical and proven, utilisation pathway for biogas in New Zealand. By improving biogas production as well as biogas utilisation technology, our work is aimed at making biogas more viable for a broader range of applications, contributing to an increased uptake of biogas technology, with all its associated environmental benefits, in New Zealand.	
<b>What are you interested in finding out at the workshop/tour?</b>	
Gaining a better understanding of where key players in the waste and agricultural industries see future application scope for biogas to vehicle fuel projects.	

<b>Name of Attendee (s)</b>	Loren Poole
<b>Organisation/ company</b>	Bioform Ltd
<b>E-mail address</b>	loren@bioform.co.nz
<b>Tel numbers</b>	021 644145
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Speaker-Potential options for biogas transport fuel use at a farm level	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Logan Dingle
<b>Organisation/ company</b>	Transpacific Industries Group (NZ) Ltd

<b>E-mail address</b>	<a href="mailto:ldingle@transpac.co.nz">ldingle@transpac.co.nz</a>
<b>Tel numbers</b>	09 427 0637; 021 320 993
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Biogas Producer and Potential fuel user	
<b>What are you interested in finding out at the workshop/tour?</b>	
Networking	

<b>Name of Attendee (s)</b>	Mike Bourke
<b>Organisation/ company</b>	Christchurch City Council
<b>E-mail address</b>	mike.bourke@ccc.govt.nz
<b>Tel numbers</b>	941 8364
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Rocky Renquist
<b>Organisation/ company</b>	Plant & Food Research
<b>E-mail address</b>	Rocky.renquist@plantandfood.co.nz
<b>Tel numbers</b>	06 355 6208 021 066 1512
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Biomass crops research, use of AD to recycle nutrients	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Keith Jones
<b>Organisation/ company</b>	Auckland UniServices Ltd/University of Auckland
<b>E-mail address</b>	k.jones@auckland.ac.nz
<b>Tel numbers</b>	09 923 5113
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Bob Weston, Stuart Roberts, Mike Jayne
<b>Organisation/ company</b>	Entec Services Ltd
<b>E-mail address</b>	stuart@entec.co.nz
<b>Tel numbers</b>	09 277 2211, 021 410 826
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Entec Services are gas engine and gas compression specialists. We supply, service and support biogas, digester gas, landfill gas, natural gas and LPG engines. Sole New Zealand agents for Waukesha industrial gas engines. Agents for Deutz Diesel and Gas engines, Arrow and Lister Petter gas engines. Ariel gas compressors and the Dresser-Rand gas compressor family.	
<b>What are you interested in finding out at the workshop/tour?</b>	
The latest advances in biogas transport fuel technology.	

<b>Name of Attendee (s)</b>	Chris McArthur Shaun Bowler
<b>Organisation/ company</b>	EECA
<b>E-mail address</b>	<a href="mailto:Chris.mcarthur@eeca.govt.nz">Chris.mcarthur@eeca.govt.nz</a>
<b>Tel numbers</b>	027 440 9908
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Andrew Richards
<b>Organisation/ company</b>	Fonterra Co-Operative Group
<b>E-mail address</b>	<a href="mailto:andrew.richards@fonterra.com">andrew.richards@fonterra.com</a>
<b>Tel numbers</b>	027 495 7262
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Interested in the concept of running trucks on compressed gas – looking at the entire supply train for this gas supply from biofuels	
<b>What are you interested in finding out at the workshop/tour?</b>	
What technology is currently being used and could be applied to Fonterra within a timeframe of 1-3 years	

<b>Name of Attendee (s)</b>	Steve Lepper
<b>Organisation/ company</b>	DH Lepper Trust
<b>E-mail address</b>	<a href="mailto:leps@primowireless.co.nz">leps@primowireless.co.nz</a>
<b>Tel numbers</b>	06 7568802, 027 248 3081
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Pig farming in Taranaki and have recently installed and now operating a Biogas cogen plant to provide electricity and hot water for the farm.	
<b>What are you interested in finding out at the workshop/tour?</b>	
Potential alternative uses for the Biogas as run a fleet of vehicles, plus network for future problem solving.	

<b>Name of Attendee (s)</b>	Siegfried Zoellner
<b>Organisation/ company</b>	East Harbour Energy
<b>E-mail address</b>	<a href="mailto:Siegfried.zoellner@eastharbour.co.nz">Siegfried.zoellner@eastharbour.co.nz</a>
<b>Tel numbers</b>	021 955746
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Consulting on renewable energy	
<b>What are you interested in finding out at the workshop/tour?</b>	
Modern technology for biogas treatment and engine fuelling	

Name of Attendee (s)	HARRY BOEREMA
Organisation/ company	ONGas/Vector
E-mail address	harry.boerema@ongas.co.nz
Tel numbers	07-848 0401 0274 965 165
Please provide an outline of your activities / interests in relation to the workshop/ tour?	
ONGas is a supplier of reticulated Natural Gas to business including CNG to the transportation industry	
What are you interested in finding out at the workshop/tour?	
Opportunities for Biogas applications	

Name of Attendee (s)	Jurgen H Thiele
Organisation/ company	CPG New Zealand Ltd
E-mail address	Jurgen.thiele@nz.cpg-global.com
Tel numbers	+ 64 21 780 737 ; + 66 3 277 2375
Please provide an outline of your activities / interests in relation to the workshop/ tour?	
Design and operation of large and small biogas plants Municipal digesters design and operation	
What are you interested in finding out at the workshop/tour?	
State of the art in biogas upgrade and use as vehicle fuel	

Name of Attendee (s)	Clare Sanders
Organisation/ company	Wallace Corporation Limited
E-mail address	clare.sanders@wallace.co.nz
Tel numbers	07 887 0310
Please provide an outline of your activities / interests in relation to the workshop/ tour?	
WCL run meat, tanning & rendering operations with an internal waste water treatment plant. There is the opportunity to recovery methane from the anaerobic ponds. Opportunities also exist around flares from rendering operations.	
What are you interested in finding out at the workshop/tour?	
WCL are interested in finding out options around the recovery of methane gas.	

Name of Attendee (s)	Caroline Crosby
Organisation/ company	Self employed
E-mail address	<a href="mailto:dressagegirl5@gmail.com">dressagegirl5@gmail.com</a>
Tel numbers	021 897 001
Please provide an outline of your activities / interests in relation to the workshop/ tour?	
What are you interested in finding out at the workshop/tour?	

<b>Name of Attendee (s)</b>	David Fletcher
<b>Organisation/ company</b>	ANZCO Foods Ltd
<b>E-mail address</b>	David.fletcher@anzcofoods.com
<b>Tel numbers</b>	03 357 1792
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Interested to understand the key issues in producing biogas as a transport fuel. Storage, quality etc.	
<b>What are you interested in finding out at the workshop/tour?</b>	
Managing quality. Storage and variable flows	

<b>Name of Attendee (s)</b>	Rob Fullerton
<b>Organisation/ company</b>	Beca infrastructure Ltd
<b>E-mail address</b>	Rob.fullerton@beca.com
<b>Tel numbers</b>	09 300 9364
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Technical Director Environmental Engineering. Many years of experience with wastewater treatment and sludge digestion. Involved with feasibility report to Watercare on use of excess biogas for CNG transport fuel	
<b>What are you interested in finding out at the workshop/tour?</b>	
NZ and global progress in the use of biogas for other than power generation	

<b>Name of Attendee (s)</b>	Chris Harris
<b>Organisation/ company</b>	Private Researcher
<b>E-mail address</b>	<a href="mailto:ce_harris@yahoo.com">ce_harris@yahoo.com</a>
<b>Tel numbers</b>	021-052-8119
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
My interests are in the area of urban public transport, about which I have written and performed paid professional work; I have already been in contact with Brian Cox and Stephan Heubeck and will have just returned from Brisbane and Perth where I have been studying PT, including clean air buses, there.	
<b>What are you interested in finding out at the workshop/tour?</b>	
Particularly interested in the Dieselgas and GoBus presentations. I have corresponded with Harvey Reid but never met up in person.	

<b>Name of Attendee (s)</b>	George Estcourt
<b>Organisation/ company</b>	Scion
<b>E-mail address</b>	George.estcourt@scionresearch.com
<b>Tel numbers</b>	0275 338312 07 3435412
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
George is an engineer at Scion with interests in woody biomass to liquid fuels.	
<b>What are you interested in finding out at the workshop/tour?</b>	
Interested to see what vehicle modifications are required along with gas clean up equipment.	

<b>Name of Attendee (s)</b>	Gerard Horgan
<b>Organisation/ company</b>	Ministry of Agriculture and Forestry
<b>E-mail address</b>	<a href="mailto:gerard.horgan@maf.govt.nz">gerard.horgan@maf.govt.nz</a>
<b>Tel numbers</b>	07 921 3403
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Wolfgang Schultz
<b>Organisation/ company</b>	HERA
<b>E-mail address</b>	<a href="mailto:exec@hera.org.nz">exec@hera.org.nz</a>
<b>Tel numbers</b>	
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
<b>What are you interested in finding out at the workshop/tour?</b>	

<b>Name of Attendee (s)</b>	Dean Scanlen
<b>Organisation/ company</b>	Engineering Outcomes, Ltd
<b>E-mail address</b>	dean@e-outcomes.co.nz
<b>Tel numbers</b>	09 436 5534 or 027 472 0945
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
All aspects of biogas production and use as a fuel.	
<b>What are you interested in finding out at the workshop/tour?</b>	
What is the best biogas technology, what does it cost and what are its disadvantages.	

<b>Name of Attendee (s)</b>	Karl Fuller
<b>Organisation/ company</b>	Fuller Nautical Ltd
<b>E-mail address</b>	<a href="mailto:karlfuller@clear.net.nz">karlfuller@clear.net.nz</a>
<b>Tel numbers</b>	021 2209330 cell 09 4322700 wk/hm
<b>Please provide an outline of your activities / interests in relation to the workshop/ tour?</b>	
Interest in lifestyle block and farm energy creation from bio gas for lighting, heating, vehicle fuel source grid power supply.	
<b>What are you interested in finding out at the workshop/tour?</b>	
Practical applications of Bio gas technology. What the future is of the technology.	

# BANZ Corporate Members

Sustaining  
Members



Full  
Corporate  
Members



Ordinary  
Corporate  
Members

