

1-5pm **SITE TOURS**

**RESOURCEFUL RECYCLING**

**SPONSORED BY CCC2 LTD**

Visit three of Christchurch's spectacular recycling venues – CCC Two's new MRF, Living Earth and Mastagard.

**KATE VALLEY LANDFILL**

**SPONSORED BY TRANSWASTE CANTERBURY LTD**

Join us on a tour to the award-winning Kate Valley landfill.  
Hosted by: Gareth James

8.30am-5.30pm **NATIONAL CERTIFICATE OF COMPOSTING**

EXITO – Compost NZ – Massey University: National Certificate of Composting pilot course.

For full details contact:  
Nigel Clarke – WasteMINZ  
+64 4 970 2553  
email : nigel@wasteminz.org.nz

8-9.50am Registration & networking breakfast

10-11am **PLENARY - OPENING ADDRESS**

- **HON. DR NICK SMITH** Minister for the Environment

11-11.30am **MORNING TEA**

11.30am-1pm **PLENARY**

- **PROF ROBERT DURANT** American University, Washington D.C. - video link
- **GUY SALMON** Ecologic Foundation
- **VAUGHAN LEVITSKE** Zero Waste South Australia

1-2pm **LUNCH**

2-3pm **PLENARY - STRATEGIC OVERVIEW**

- **MARTYN PINCKARD** Director of Operations, Ministry for the Environment

2-5pm **SITE TOUR**

**CONTAMINATED LAND**

Visit the Bankside project site.

3-3.30pm **AFTERNOON TEA**

3.30-5pm **SESSION FOUR**

**THE EMISSIONS DILEMMA**

Are you prepared for a lower carbon economy? Get a valuable update from MfE on the current policy setting, as well as advice from CarboNZero on how to measure, manage and mitigate your greenhouse gas emissions. Also hear about opportunities such as New Zealand's potential to recover energy from organic waste for conversion into useful feedstocks and byproducts.

- Emissions trading – considerations for the waste and transport sectors *Ministry for the Environment*
- Debunking the Waste to Energy Myth *Christian Nobel, Veksebo – sponsored by the Trade Commission of Denmark*
- Measuring energy embodied in New Zealand's organic waste stream *Simon Love, Haylon Smith, Alison Slade & Daniel Gapes, Scion Research*
- Research and development of protocols for measuring GHG emissions *John Andrews, CarboNZero*

**BEHAVIOUR CHANGE**

How do we encourage organisations and individuals to cease wasteful actions and adopt sustainable behaviours? From smart shopping through to devising environmental challenges for secondary school students, this session shows you the way.

- Smart shopping - initiatives to avoid waste *Danielle Kennedy, GHD*
- Enviro-challenge - reaching youth *Steve Tierney, Envirostate*
- Nature deficit disorder *Sue Martin, Papakura District Council*
- Pick it up campaign *John Webber, Glass Packaging Forum*
- Behaviour change practitioner survey *Danielle Kennedy, GHD*

**ROLLING UP WASTE**

Across the sector, innovation and change are leading to better environmental and economic outcomes. Are you up-to-date and thinking outside the square?

- Impact of changes to Christchurch kerbside collection on amount and composition of recovered materials *Ian Whitehouse, Terranova + Adrian Marsh, CCCTwo*
- "Wheele" closing the loop in Christchurch *Karen Murray, Sulo Talbot + Mark Christison, Christchurch City Council*
- Product Stewardship: a commercial study in turning nappies into compost *Lyn Mayes, Mad World Ltd + Karen Upston, Envirocomp Solution Ltd*
- A brewery built from millions of beer bottles: Use of waste glass aggregate in concrete *Greg Slaughter, Holcim (New Zealand) Ltd, Ross Copland, Mainzeal Property & Construction Ltd + Campbell Robertson, Holcim (New Zealand) Ltd*
- Closing the loop – innovation for product stewardship at InterfaceNZ *Lin Roberts, Lincoln University + Richard Morley-Hall, InterfaceNZ*

**MANAGING THE NASTIES**

The content for this session is still being sourced. Once finalised the updated program will be posted on the WasteMINZ website. If you do have a paper that you would like to present in this session, please contact the WasteMINZ office.

- Comparison of the hazardous substances plans & rules among Regional Councils *Lynn Torgerson & Helen Davies, Pattle Delamore Partners*
- Optimising Sucking & Dumping with new technologies *Morten Jensen, Technical Support Manager, J. Hvidtved Larsen A / S*
- Panel discussion

5-5.30pm **WASTEMINZ AGM**

5.30-6pm **OPENING DRINKS**  
**OPENING DRINKS PROUDLY SPONSORED BY SALTER'S CARTAGE SINCE 2004**



6-9.30pm **ON-SITE INFORMAL FUNCTION**

The evening continues in the Trade Exhibition area with food and beverages available throughout the evening. You'll have ample opportunity to catch up with old friends, meet new ones and check out the latest technology and services that the Trade Exhibitors will be keen to share with you.

Lion Nathan are proud sponsors of your favourite beer for the evening.



OPENING DRINKS SPONSOR



Salter's Cartage is involved in the Oil Recovery Program as the oil collection agent. This equates to over 3000 sites from Turangi to Cape Reinga. On return to Salter's depot the waste oil is pumped into holding storage tanks and then delivered to Onehunga Wharf where it is pumped onto Holcim Cement's ships for its journey to Westport for incineration.

## PRINCIPAL SPONSORS



## EXHIBITION SPONSOR

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## SPONSORS



8-9am **BUFFET BREAKFAST** SPONSORED BY WASTEMINZ

9-10.30am **PLENARY SESSION**

Unlocking a new way forward

- LISA SMITH
- MARK INGLIS

10.30-11am **MORNING TEA**

11am-12.30pm **SESSION TWO**

### EXTERNAL DRIVERS FACING THE WASTE INDUSTRY

A strategic look at how New Zealand's waste sector may be affected by national legislation, global conventions and commodity markets. The Ministry will provide an update on how the Basel Convention will affect our exports of hazardous and other wastes. This session will include examples of when a permit is needed and the 'best practice' way to obtain a permit.

Will RMA reforms 'simplify and streamline' RMA processes for waste? Understand current trends in the recyclates market and possible outlooks for New Zealand.

- An update on the Basel Convention *David Wilson, Ministry for the Environment*
- Recyclates Market – where we have been and where we might be going
- RMA reforms – what could they mean for you *Rachel Devine, Minter Ellison*

### PRODUCT STEWARDSHIP

The Waste Minimisation Act provides a framework for full life-cycle assessment. Hear about current or possible programmes for key waste streams, and how others are 'playing their part'.

- The Agrecovery story *Graeme Norton, Agrecovery*
- Priorities, possibilities and pyrolysis - the product stewardship of tyres in New Zealand *Jo Knight, Zero Waste NZ Ltd*
- E-Waste: International trends and solutions – could these work here in NZ? *Sims*
- Mercury lights – life cycle assessments for product stewardship *Peter Garret, ERM*
- Packaging Product Stewardship - a scheme for the future *Sharon Jereb, Packaging Council NZ*

### HEALTH & SAFETY

How can you change your organisation's health and safety culture to achieve results? Or introduce a drug and alcohol policy? The NZ Police provide a reality check on what's happening on our roads, and we hear an operator's view on how to look after our drivers. Get up-to-date with the latest research on bags-vs-bins, and the health and safety best practice guide.

- The evolution of safety culture in EnviroWaste Services: the way we do things around here *Robyn Stewart, EnviroWaste*
- Driven by safety in the work place *Ron Salter, Salter's Cartage*
- Road Safety Police CVIU
- Introducing a Drug & Alcohol Policy *Aaron Lloyd, Minter Ellison*
- 'Loose vs Bins' position report, commissioned by the Health & Safety sector group *presented by Morrison Low*
- Health & Safety Best Practice Guide – an update on the good work undertaken by the Health & Safety sector group

LUNCH SPONSORED BY MWH

### POLICY & CONTAMINATED LAND

The long road – a policy direction for contaminated land is in the pipeline. We look at the latest proposals on the drawing board.

- Developing International Soil and Groundwater Criteria (one company's approach for developing screening criteria for fuel sites (retail only) for countries where there are no regulations) *Lynn Spence – RISC*
- P Progress with the proposed contaminated land NES – where are we? *James Court, Ministry for the Environment*
- Just what are the implications for contaminated land management from the decision of the Ombudsman? *Helen Atkins, Atkins Holm Joseph Majurey*
- Total petroleum hydrocarbons in soil vapour and groundwater: emerging issues *Lynn Spence – RISC*

12.30-1.30pm **LUNCH** SPONSORED BY MWH

MWH is pleased to be holding its annual WasteMINZ conference competition again this year and will announce the winner during its sponsored lunch.

1.30-5pm **SITE TOUR**

### GLASS PRODUCT STEWARDSHIP IN ACTION AT LION NATHAN

The Glass Packaging Forum invites you to join them on a tour of Lion Nathan's Christchurch Brewery to see glass product stewardship and waste minimisation in action. And hear about the Forum's recent work programmes. *Numbers are limited to 40.*

1.30-3pm **SESSION THREE**

### BEST PRACTICE WASTE MGMT & MINIMISATION PLANNING

**WORKSHOP:** This session is a must to help you understand the recent guidance and get you started on the first planning steps for your own territorial authority or group of territorial authorities. You will break out into groups of regions/subregions to start the pre-planning process for waste assessments. *All organisations are welcome to attend.*

- *Morrison Low*

### INTRODUCTION TO ACCREDITATION

**WORKSHOP:** Find out more about product stewardship and accreditation in this interactive session, which will be especially useful for scheme managers. Consider what accreditation means from the perspectives of the scheme manager (manufacturer), the scheme participant and the consumer. Find out what happens after a product stewardship scheme is accredited, and what requirements must be fulfilled once you receive that "tick" from the Minister.

- *Suzie Mountain & Helen Bolton, Ministry for the Environment*

### MEASURING & MANAGING

Are you getting the best out of your waste contracts? Walking the talk with your procurement practices? And measuring successes along the way? Howard Markland from the Ministry for Economic Development will discuss how the new Envirostep management tool can help businesses improve their environmental and economic performance. Is it time for the waste sector to collaborate to collect sound waste data for New Zealand? Hear about the WasteMINZ initiative – WaRNR.

- Comparing apples with apples – the value of Environmental Management System Certification *Kim Kelleher, Landcare Research*
- Envirostep *Howard Markland, Ministry for Economic Development*
- Procurement – lessons for NZ *Duncan Wilson, Eunomia Research & Consulting*
- WaRNR – a solution for consistent waste data capture and reporting for NZ? *Marion Short, WasteMINZ*

## PRECINCT WIDE REMEDIATION - KEYNOTE SESSION

Contaminated site remediation in New Zealand is carried out site by site. Precinct wide remediation offers an innovative and efficient way to plan and remediate complex sites.

Hear some insights and Australian experience from *Kirk Brandt* – Contaminated Land Managing Partner at ERM and then from *Andrew Labbett*, Associate Remediation Engineer at Coffey who will talk on application of this technique at a gasworks site.

3-3.30pm AFTERNOON TEA

3.30-5pm SESSION FOUR

## LANDFILL

Learn about the pre-design analysis for closure of an oil superfund site landfill and key notes in relation to sustainable landfilling in Arizona. Then take part in a discussion on the key landfill issues in the industry.

- Predesign analysis for closure of the oil superfund site landfill *Prof Kavazanjian, Arizona State University* (video link)
- Key notes in relation to sustainable land filling *Prof Kavazanjian, Arizona State University* (video link)
- Issues for the industry, a discussion led by the Landfill & Residual Waste Sector Group

## FOOD GLORIOUS FOOD

What can we do with the 1kg of food waste from each person in New Zealand every year? Well, apart from the obvious reduce ...it still needs to be processed.

From food waste generation to collection and energy recovery, this session has something to get your teeth into.

- Commercial food waste in the Auckland Region *Sunshine Yates, Waste Not Consulting + David Anstice, Enterprising Manukau*
- Comparing sustainability factors of disposable catering consumables *Ian Challenger, The Cawthron Institute + Brittany Packer, Nelson Green Teens*
- Innovations in food waste collection and processing internationally – findings from a Churchill Fellowship *Lisa Brown, Impact Environmental Consulting*
- Regional biomass to energy project, part of an integrated organic waste strategy *Chris Pepper, Palmerston Nth City Council & Andrew Slack, TBL Solutions*

## MODELS & TOOLS

There are a lot of waste models out there, with different drivers and outcomes. Hear from a range of Territorial Authorities and other member organisations about why their waste models exist, what they comprise of and what the future holds.

- *Auckland City Council*
- *Thames Coromandel District Council*
- *New Zealand Defence Force*
- *Queenstown Lakes District Council*
- *Fonterra*
- *Plus more to come.....*

## DEGRADABLE PLASTICS & PACKAGING WORKSHOP

This workshop will give you an introduction into the complex world of degradable plastic and introduce the *Plastics New Zealand Degradable Plastics Guide* and Industry commitment.

- *Sharon Jereb – Packaging Council NZ & Dennise Chapman, Plastics NZ*

## THE SCIENCE OF REMEDIATION

Look for some fascinating insights into the practical application of remediation techniques in this session.

- Mitigating the Unknown *Ian Fraser, Richard Coombe & Warren Sharp, URS New Zealand Ltd*
- Living with lead – environmental management of active small arms ranges *Penny Kneebone, Tonkin & Taylor + Harley O'Hagan, New Zealand Defence Force*
- Are SPLP or TCLP testing data adequate for understanding adsorption coefficients? *Chris Bailey, Tonkin & Taylor Ltd*
- Chemical-enhanced soil washing for land decontamination *Daniel Tsang, University of Canterbury*

5-5.30pm SESSION FIVE

## DISPOSAL FACILITY OPERATOR WORKSHOP

A targeted workshop for waste disposal facility operators to introduce the auditing functions of the Waste Minimisation Act 2008

- *Natasha Lewis, Ministry for the Environment*

6.30pm

WASTEMINZ FORMAL CONFERENCE DINNER  
PROUDLY SPONSORED BY TONKIN & TAYLOR  
+ HILL LABORATORIES



Don't miss the 21st annual conference dinner at the Air Force Museum. Again you'll enjoy the best in food and wine and you can dance the night away to a super band, sponsored by *EnviroWaste Services Ltd*, and your favourite beer is again proudly sponsored by *Lion Nathan*.

## FORMAL DINNER SPONSORS



**Tonkin & Taylor**

Tonkin & Taylor is a New Zealand owned, specialist environmental and engineering consultancy celebrating its 50th year in 2009. The company has a strong reputation for technical excellence in the following areas:

For more information visit: [www.tonkin.co.nz](http://www.tonkin.co.nz)



**Hill Laboratories**  
BETTER TESTING BETTER RESULTS

Hill Laboratories is New Zealand's leading analytical testing laboratory, servicing both domestic and international markets with a range of analytical tests from their laboratories in the North and South Islands.

## BEST WRITTEN PAPER

**SULO TALBOT**

Sulo-Talbot are proudly sponsoring the Best Written Technical Paper Award this year. The Award(s) will be presented at the formal dinner. Sulo-Talbot have the flexibility of local NZ manufacture and use up to 30% recycled content in production of their two-wheel MGB's

## PRINCIPAL SPONSORS



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8.30-9.30am **BUFFET BREAKFAST** SPONSORED BY WASTEMINZ

9.30-10.30am **PLENARY**

Conference wrap up

*John Cocks and Rachel Depree*

10.30-11am **MORNING TEA**

11am-12.30pm **SESSION TWO**

### LANDFILL

How do the latest international technologies for waste to energy apply to New Zealand? Broaden your horizons and hear about solid waste challenges and their solutions both here and overseas. And find out what the landfill and residual waste sector group is up to – you might like to join!

- Waste to Energy – experiences from Denmark *Christian Nobel, Veksebo sponsored by Trade Commission of Denmark*
- Cost Analysis of Municipal Solid Waste Management in India *Shantha Parthan & Mark Milke, University of Canterbury*
- Industry Training issues – challenges to achieving consistent outcomes *Tony Kortegast, Tonkin & Taylor*
- Sector Group update

### INNOVATION IN ORGANICS

Composting started way back with Neolithic people – but we have come a long way since then and a huge range of organics processing techniques are available. The new and not-so-new are examined here.

Follow leading edge research outcomes from Dr Marta Camps, New Zealand Biochar Research Centre. Biochar is produced by thermal decomposition of organic feed-stocks and has significant implications for both greenhouse gas mitigation and improving soil quality.

- Biochar Research in New Zealand – advancing the understanding of Biochar for mitigating global climate change *Dr Marta Camps*
- Silk Purses from sow's ears? *Geoff Hemm, Transpacific Industries Group (NZ) Ltd*
- Large scale composting sewage sludge using a natural microbial technology call EM *Mike Daly, New Zealand Nature Farming Society + Pip Chrystall, TBL Solutions Ltd*
- Bokashi Composting: performance monitoring to assess the potential of commercial level applications *Neville Burt, Bokashi NZ Ltd + S P Barnes, Aurecon*

### CONSTRUCTION & DEMOLITION WASTE

Attend this session for information on disaster debris management, BRANZ on updating REBRI, and a discussion on whether site waste management plans are a solution to cleanfill management problems. Look at two examples of cleanfill management: one looking at Christchurch's cleanfill bylaw and monitoring; the other looking at Taranaki's approach to monitoring under the Resource Management Act.

Then Lisa Eve from Eunomia will give an international perspective including the recent WRAP Design Guidelines.

- Planning for disaster debris management *Charlotte Brown & Mark Milke, University of Canterbury*
- BRANZ update *Roman Jaques*
- Cleanfill Management *David Wilson, Ministry for the Environment*
- WRAP Design out waste project *Lisa Eve, Eunomia*
- Panel discussion on recycled aggregates

### TA FORUM

What challenges are you grappling with? Others are probably facing similar challenges. Contribute to shaping this session by adding your issues to the agenda which will be circulated to the TA forum prior to the conference. There is so much knowledge out there; share it and ensure you're not reinventing the wheel. Plus hear from Brian Gallagher and LGNZ on the work that is underway on the model contract and where to from here.

- *Facilitated by LGNZ and WasteMINZ*
- *Only open to WasteMINZ members that are employed by TAs.*
- *A separate registration charge applies*

12.30-1.30pm **LUNCH**

1.30-3pm **SESSION THREE**

### TA FORUM CONTINUES

### REGULATION & SUSTAINABILITY - MUTUALLY EXCLUSIVE?

Are consent rules governing contaminated land hindering recovery? And is all this remediation sustainable? Take a closer look at some key issues including the soil guideline values being developed by the Ministry.

Contaminated land remediation needs to be economically and environmentally sustainable but quite often, the backstop is regulation. Explore the options and consider what the future could hold.

- The impact of contaminated land consenting requirements on development in New Zealand *Chris Hillman, Jared Pettersson & Penny Kneebone, Tonkin & Taylor*
- A Comparison of the Ministry for the Environment's proposed draft SGVS (health) for arsenic and cadmium with New Zealand natural background soil concentrations *Daniel Moore, Ministry for the Environment + Matthew Taylor, Environment Waikato*
- Sustainability concern of contaminated site remediation *Daniel Tsang, University of Canterbury*
- Sustainable remediation *Joanne Ferry, Peter Cochrane & Tracey Bear, Tonkin & Taylor*

### ADVANCING THE COMPOST INDUSTRY

#### WORKSHOP: COMPOST NZ STEERING COMMITTEE

Organics are a major proportion of the waste stream at the moment. As such, there should be a big focus on investing carefully in the organics sector.

Compost NZ is a well structured group with an excellent understanding of the industry's drivers, a sound R&D strategy and a focused industry development plan.

We are therefore at an important and exciting juncture in the operation of Compost NZ. The steering committee wish to ensure that we are able to take advantage of opportunities that may arise from the Waste Minimisation Act and the implementation of the waste levy funding scheme.

The committee invites you to take an active role in developing our industry into the future.