

Press Pack /Media Kit

For Immediate Release



The Health Care Waste Summit & Expo 2009

18 & 19 May 2009

Southern Sun OR Tambo International
Airport Hotel,
Johannesburg, South Africa

Hosted by:



Sponsored by:



Daniels Sharpsmart Compass (Pty) Ltd.



Solid Waste Technologies



*"Seeking Solutions for the
Challenges of the future"*

Index

Page

1.	Introduction	3
	Letter from the Organisers	3
	Press Release	4
	What is the Health Care Waste Summit & Expo 2009	6
	About the Health Care Waste Forum Southern Africa	9
2.	Sponsors & Endorsers	10
3.	List of Exhibitors	13
4.	Summit Programme	19
5.	Speakers, Abstracts & Papers	24
6.	Abbreviations	48
7.	Attendance List	50

1. Introduction

From the Desk of the Organisers

Dear Press Representative,

It is with pleasure that we herewith introduce you to the very first official **Biennial Health Care Waste Summit & Expo 2009** that will be hosted by the Institute of Waste Management of Southern Africa and the Health Care Waste Forum Southern Africa.

This comprehensive and informative event will take place at the Southern Sun OR Tambo International Airport Hotel on the 18th and 19th of May 2009 and it will investigate strategies and action plans based on the complete eradication of mismanaged Health Care Waste in Southern Africa.

This press pack contains all the required information based on the event program, speaker profiles and topical discussions. Should you require any further assistance, please do not hesitate to contact me directly.

Consulting to the Health Care Waste Forum Southern Africa

André Snyman

QuantumIntellect

Johannesburg, South Africa

Consulting to the Health Care Waste Forum Southern Africa

snymana@tiscali.co.za

Tel: +27(0)83 448 8233

Fax: +27(0)86 620 2420

Press Release

For Immediate Release

2009 / 05 / 13

Forum calls on medical waste industry collaboration at two day summit & expo

The Health Care Waste Forum are hosting a two day summit and expo from 18 – 19 May 2009, at the Southern Sun OR Tambo International Airport Hotel. All interested parties are invited to register for the event and take part in identifying feasible options to save and legalise this industry sector.

The Health Care Waste Forum, currently operating under the auspices of the Institute of Waste Management of Southern Africa (IWMSA), has joined forces with the Department of Environmental Affairs and Tourism (DEAT) and the Department of Health (DOH) to put a final stop on the illegal dumping of infectious waste in South Africa. A two day conference and expo will be hosted in Kempton Park, from 18-19 May 2009 to work on a strategy to curb the looming crisis.

“The illegal dumping and stock-piling of health care risk waste remains the order of the day throughout the country and something needs to be done urgently to eradicate the mismanagement of medical waste policies and standards in Southern Africa” says Magner, Chairperson to the Health Care waste Forum Southern Africa.

The conference, entitled ‘Seeking solutions for the challenges of the future’, will draw attention to a variety of local and international business opportunities and seek partnerships with a large number of organisations that are directly and indirectly associated with medical waste generation and treatment. Specific emphasis will be placed on the implementation of standards that are legitimate and sustainable especially pertaining to tenders.

Eighteen speakers from various medical associations, hospitals, treatment plants and government departments will address the delegates. Currently, policies for medical waste are individually driven by the nine provincial governments causing a substantial overload of regulation for service providers that need to cross provincial borders when transporting and treating waste. “This conference will be seen as the final frontier for dealing with all the underlying challenges and differences of opinion that are currently undermining good governance practices. We look forward to putting a national health care waste strategy together at the end of the conference,” says Janet Magner, Chairperson to the Health Care Waste Forum Southern Africa.

Some of the speakers include international masterminds, Edward Krišūnas, a USA expert operating within the international medical waste arena as well as Terry Grimmond, a medical microbiologist from the Daniels Corporation located in Australia. Local senior government officials representing the directorate authorisation and waste disposal management and the directorate for waste and policy management as well as experts from the legal fraternity and environmental management specialists will lead this critical and much needed discussion forum.

This conference will also feature a small business hub with its own exhibition floor that caters for waste disposal companies, treatment plants and solution providers to showcase their products and services to the health care market. The exhibition will be open to the public on 19 May and is expected to attract representatives from clinics, laboratories, pharmaceutical companies and hospitals.

With the Forum's presence and membership base growing significantly, change is for certain. This very active forum is currently succeeding in positioning itself as the ultimate voice for eradicating the mismanagement of medical waste in South Africa and it is believed to be one of the most dynamic attempts yet in putting a halt on poor waste management practices. For more information please contact the forum project coordinator at snymana@tiscali.co.za or visit: www.hcwforum.org.

###

Issued on behalf of:	The Health Care Waste Forum
Contact:	Janet Magnier
Media contact:	Regine le Roux
Tel:	(011) 317 3861
Fax:	086 6553855
Cell:	(083) 302 1528
E-mail:	regine@reputationmatters.co.za

What is the Health Care Waste Summit & Expo 2009?

Background

As you might be aware, Health Care Waste is a mounting problem in the Southern African Region as in many other countries. Over recent years there have been numerous press statements of health care risk waste being disposed of in an incorrect manner. People that have been most effected by health care risk waste have been the poor disadvantaged members of society. The incineration of medical waste has also caused much concern. Previously, civil society had not been given a platform to voice their concerns regarding the health impacts that health care waste and incineration has had on their quality of life, and only recently has civil society taken a stand to state that “enough is enough”, and have sought ways to voice their concerns in a legitimate manner.

In addition, claims were also made stipulating that the biggest problem in the effective management of Heath Care Waste lies with risk awareness, public exposure, incinerator capacity and the increasing need for a Solid and Sustainable National Health Care Waste Strategy.

The unsafe disposal of health care waste (for example, contaminated syringes and needles) poses immense public health risks. Contaminated needles and syringes represent a particular threat as the failure to dispose of them safely may lead to dangerous recycling and repackaging which lead to unsafe reuse. Contaminated injection equipment may be scavenged from waste areas and dumpsites and either reused or sold to be used again.

In addition to the public health risks, if not managed, direct reuse of contaminated injection equipment results in occupational hazards to health workers, waste handlers and scavengers. Where waste is dumped into areas without restricted access, children may come into contact with contaminated waste and play with used needles and syringes. Epidemiological studies indicate that a person who experiences one needle stick injury from a needle used on an infected source patient has risks of 30%, 1.8%, and 0.3% respectively of becoming infected with HBV, HCV and HIV.

Surely it would seem that the management of health-care waste requires increased attention and diligence to avoid the substantial disease burden associated with poor practice, including exposure to infectious agents and toxic substances. Incinerators provide an interim solution especially for developing countries where options for waste disposal such as autoclave, shredder or microwave are limited.

In order to address all the challenges at hand the Health Care Waste Forum Southern Africa has envisaged a national summit for the year 2009 to ensure that best practice is promoted in order to ensure optimal operation of the national health care system. Themes that will be addressed in the Summit program include:

- Investigating both new and existing legislation in health care waste management to secure a sustainable national health care waste management program
- Evaluating the treatment and disposal of medical waste
- Promoting awareness for health care waste at generation level that include all medical treatment facilities from hospitals, beauty salons to tattoo parlors
- Implementing a comprehensive industry action plan for short and long term challenges

In addition to the above the Forum will also outline objective guidelines toward the effective management of current operational difficulty with incinerators, including inadequate training of operators, waste segregation problems and poor maintenance.

As national forum we have dedicated ourselves to the development of strategies that will minimise risks and maximize opportunities.

About the Summit

The Health Care Waste Summit & Expo 2009 is taking place for the first time under the banner of the Health Care Waste Forum Southern Africa to address an industry in crisis. During 2008 the Health Care Waste Forum Southern Africa hosted a series of National Imbizo's that served as launch platforms for the Forum's aims and objectives throughout the country.

The main aim for this interactive summit is to provide the ultimate Southern African platform for all participants that strive towards the effective management of health care waste on the Southern Tip of the African Continent. Our primary focus point will be to gather and conclude a final health care waste management action strategy that can be enrolled nationally in all Southern African countries involved.

The Summit will investigate:

- The implementation of a comprehensive system, addressing responsibilities, resource allocation, handling and disposal. This is a long-term process, sustained by gradual improvements;
- Awareness raising and training about risks related to health-care waste, and safe and sound practices;
- Selection of safe and environmentally-friendly management options, to protect people from hazards when collecting, handling, storing, transporting, treating or disposing of waste.
- Encouraging government commitment and support that needed to reach an overall and long-term improvement of current challenges.

The Summit will attract the best minds in the field of health care waste management, environmental and healthcare specialists. The 2009 Southern African Summit will be hosted in the economic heart of Johannesburg, South Africa's city of Gold.

The main theme of the Summit is: **"Seeking Solutions for the Challenges of the Future"**

In addition to this main theme, there will also be open sessions where participants can present their perspectives on other matters related to the challenges in the industry and the way forward.

Themes that will be addressed in the Summit program include:

- New and existing legislation in health care waste management
- Treatment and disposal of medical waste
- Health care waste at generation level
- Industry action plan for short and long term challenges

A World-class Interactive Summit Experience

The Health Care Waste Summit & Expo 2009 will explore the state of the industry, highlight the business imperatives, outline current and future trends, present latest innovations and development, explore powerful business applications and stress technology benefits. It will provide a framework for successful migration strategies and present proven implementation methodologies through enlightening International and African and Southern African Case studies.

The Health Care Waste Summit & Expo 2009 is more than just a conference. It is a director-level meeting place of the biggest buyers, sellers and experts in the industry to design business models and to ensure profitable implementation over a short span of time. It is a stimulating summit driven experience with interactive panel discussions, case studies of successful international implementation, and facilitated open sessions for delegates to debate and deliberates the issues they are facing.

A Growing Market

“The industry is in crisis..... It is cut-throat and something is very wrong”. The stockpile is symptomatic of a bigger problem” Joanne Yawitch, Deputy Director-General Department of Environmental Affairs & Tourism

The Health Care Waste Summit 2009’s vision is to unite the different players in the industry in an unbiased and non-confrontational forum.

The Health Care Waste Summit & Expo 2009 is Southern Africa’s only industry dedicated HCRW event where you can:

- Live and breathe world-best practice
- Network with peers and industry leaders
- Learn how to deliver return on investment through effective and modern health care waste solutions
- Evaluate the best new processes and technologies
- Get fresh ideas
- Benchmark their performance against industry leaders
- Learn about cost-effective business applications

On behalf of the Health Care Waste Forum Expo, our partners, sponsors and endorsers we would like to thank you for your attendances and support. We trust that you will find the event valuable and informative.

Thank you for your support.

The Health Care Waste Forum Southern Africa

About the Health Care Waste Forum Southern Africa

The Health Care Waste Forum Southern Africa is a non-profit member-based organisation open to all stakeholders of the Medical and Health Care Waste industry. The Forum was established from the Health Care Waste Interest Group, founded in 2000 under the auspices of the Institute of Waste Management of Southern Africa.

Members of the Forum include representatives from public and private sectors with interests from where the products and materials are manufactured, to the use and implementation thereof and disposal of the waste generated as a result. Integral to the Forum is the continuous dialogue that is encouraged and stimulated between various parties in interactive and dynamic forum sessions.

Its vision is to be the primary voice of the health care waste industry and their mission is to provide a strategic communication platform for the whole industry to share experiences on legislation, best practice, new information and network with industry stakeholders. The forum is accessible to all. Their core value is to operate within the policy and ethical frameworks delineating professional waste management.

We provide:

- A modern a strategic forum for the dissemination of information to the Health Care Waste Industry in Southern Africa
- A showcase of the latest products, services, technologies, regulation and legislation
- General support and assistance to the Health Care Waste Industry

Our primary focus areas include:

- Raising the profile of the Forum in order to become a lobbying power on Southern African local, provincial and national government level in line with international standards and practice
- Training provision, accreditation and development of specific courses, development of industry participants and application and promotion of healthcare waste standards and international best practice
- Operating as a Platform for research and information dissemination and communication to the industry and stakeholder groups, networking between industry and government

Our key stakeholders include:

- Providers of healthcare services (government and private)
- Laboratories
- Pharmaceutical companies
- Transport of healthcare waste
- Treatment of healthcare waste
- Government – legislator and generator of healthcare waste
- Landfill
- Academics

For more information please contact Ann Oosthuizen on +27(0)11 675 3462 or iwmsa1@telkomsa.net

2. Sponsors & Endorsers

Sponsors

The Health Care Waste Summit & Expo 2009 is proudly sponsored by:

Company



John Snow International Making Medical Injections Safer

JSI and its staff are dedicated to improving the health of individuals and communities throughout the world. We believe that all people are entitled to accessible, appropriate quality health care. To make this vision a reality JSI applies practical and innovative solutions in management, research, education, information and training.

Contact Details

Martha Mosiane
Project Coordinator
JSI/MMIS-SA Offices
Lord Charles Office Park
Brooklyn Road, Pretoria
Tel: +27 12 346 6940, ext 204
Mobile: +27 83 266 3448
Fax2mail: +27 86 541 3485
mmosiane@jsimmis.org.za
www.jsi.com



Sterifant International Holding AG

The company with the worldwide perfect solution for the sterilisation of medical waste. The company with the perfect solution in consumables for clean handling of infected clinical waste. The company with a low cost and simple system for landfill treatment and treatment of domestic waste.

Errol Staude
082-430 1995
errols@komatsu.co.za
<http://sterifant.net/index.php>



Daniels Sharpsmart Compass (Pty) Ltd.

Compass Waste Services was established to provide a "First World" scientific approach to health care risk waste management. Compass revolutionized the health care risk waste industry in South Africa by pioneering the introduction of Bondtech autoclaves as an environmentally friendly alternate treatment method to incineration. Besides health care risk waste collection & treatment, Compass also offers a wide range of related products and services, including extensive training programmes and on-site management. Compass Waste is currently the largest medical waste treatment company in KZN and the Free State and is rapidly expanding into other provinces in South Africa.

Julie Venter
Marketing Manager
Compass Waste Services
Telephone: 031 267 9700
Facsimile: 031 267 9732
Cell Phone : 082 888 5775
Email: julie@compass.za.net
Website www.compass.za.net



Psychem Waste Solutions (Pty) Ltd.

Psychem Waste Solutions (Pty) Ltd was established in 1996 as a Close Corporation running under the Trading name of Psychem Consultants CC. Initially the company had two focus areas namely business consulting and development of crime investigation products. The constant neglect of environmental aspects and the resultant affect on the cognitive development of children sparked a keen interest in environmental care, with the member of Psychem who is an Industrial Psychologist by trade.

This interest developed into a business with the main focus being Health Care Risk Waste management and providing high levels of service to our clients thus a passion for environmental preservation aligned with a business opportunity created the driving force in establishing the vision and mission of the company.



Solid Waste Technologies SA (Pty) Ltd

WTSA was established in 1993 to seek business opportunities within the waste sector in South Africa. The company conducted research into various Waste Technologies internationally and signed agreements with the very best in the United States and United Kingdom. Some of these technologies include Waste to Energy, Automatic Waste Recycling Systems and the manufacturing of products from recycled materials. SWTSA has been selected as a preferred health waste partner in South Africa by Stericycle, the largest Health Care Waste Systems Supplier in the world. We are the owners of a 25 ton a day processing plant in Cape Town with a monthly capacity of 1200 tons and a plant at City Deep in Gauteng with a daily capacity of 50 tons and a monthly capacity of 2540 tons.

Ludwig Hartmann

General Manager

Tel: 0860 779243

Direct Fax: 086 6095555

Fax: 011-683 7757

ludwig@psychem.co.za

www.psychem.co.za

Edgar Adams

Tel: 021 556 9167

Fax: 021 556 9168

Email: info@swtsa.co.za

www.swtsa.co.za

Endorsers

The Health Care Waste Summit & Expo 2009 is proudly endorsed by:



health

Department:
Health
REPUBLIC OF SOUTH AFRICA

National Department of Health

ramatm@health.gov.za



The Forum for Professional
Nurse Leaders

The Forum for Professional Nurse Leaders

www.fpnl.co.za

Contact Person : Janine Slome

Tel: 011 883 1952



The Council for Health Services Accreditation of Southern Africa

www.cohsasa.co.za

Contact Person : Prof Stuart Whittaker

Tel: 011 883 1952



The Clinical Engineering Association of South Africa

<http://www.ceasa-national.org.za/>

Contact Person : Phillip Wilmot

Tel : +2711 653 2000



CPC Qualicare

Contact Person : Dr Tony Behrman

Tel : 021 462 4777

Email : cpctb@mweb.co.za



Gauteng Provincial Government

www.health.gpg.gov.za

Contact Person: Kathie Jansen

Tel : 012-3039044



Department of Agriculture and Environmental Affairs
Departemnt van Landbou en Omgewingsake
Umsungango Wenziso Mzantsiwe
KWAZULU-NATAL

The Department of Agriculture and Environmental Affairs (DAEA – KZN)

Tel : 033-355 9100

3. List of Exhibitors

The Health Care Waste Forum Southern Africa proudly brings you the following exhibitors that will have their exclusive range of products and services on display. All displays and exhibits are set up the Khanya Room of the Hotel's Conference Centre and will also form the central focus point for all refreshments lunches and teas.

Please feel free to visit the following companies that will be showcasing their products and services in the exhibition hall:

Company	Stand
	1
Stand 1: Siyandisa Waste Services	Syandisa Waste Services
<p>Hydroclave™ Technology is the Hazardous Waste Treatment Solution to the growing demand for a non-incineration, cost effective and environmentally responsible method of biomedical and infectious waste treatment. Siyandisa Waste Services is an empowered South African company offering a full turn-key solution for hazardous waste treatment:</p> <ul style="list-style-type: none">• Sale vs. full maintenance lease + Model selection• Design/build specification + Site assessment• Operation and training	<p>T: 031 580 2000 F: 031 569 6254 350 Umhlangane Road River Horse Valley Effingham P O Box 201006 Durban North 4016 www.siyandisa.com</p>
	2
Stand 2: Psychem Waste Solutions (Pty) Ltd.	Ludwig Hartmann
<p>Psychem Waste Solutions (Pty) Ltd was established in 1996 as a Close Corporation running under the Trading name of Psychem Consultants CC. Initially the company had two focus areas namely business consulting and development of crime investigation products. The constant neglect of environmental aspects and the resultant affect on the cognitive development of children sparked a keen interest in environmental care, with the member of Psychem who is an Industrial Psychologist by trade.</p> <p>This interest developed into a business with the main focus being Health Care Risk Waste management and providing high levels of service to our clients thus a passion for environmental preservation aligned with a business opportunity created the driving force in establishing the vision and mission of the company.</p>	<p>General Manager Tel: 0860 779243 Direct Fax: 086 6095555 Fax: 011-683 7757 ludwig@psychem.co.za www.psychem.co.za</p>



3

Stand 3 : Tshumisano Waste Management

Tshumisano Waste Management was established in 2004 by black entrepreneurs who had a vision of offering their clients total integrated waste management solutions that are in line with National Waste Management Strategy objectives. The company is committed to a healthy and safe environment and to this end Tshumisano Waste Management sees itself as one of the key role players in the waste management arena, Specialising in health care risk waste management. Tshumisano Waste Management has subsidiary companies like Tshumisano Environmental Services. Tshumisano Environmental Services is based in Gauteng and services the Gauteng and North West Provinces.

Nkululeko Makhunga

Tel : 015 223 2843

Fax: 015 223 7128

Unit No. 25

Freedom Drive

Industrial Park

Seshego

0742

Email: info@tshumisano.waste.co.za
nkululeko@mysticbluetrading.co.za



4

Stand 4: Buckley Flange & Steel CC.

Buckley Flange & Steel is a nationally recognised engineering company. We have a 5 year track record of success in a specialised field and range of products which includes the following:

- Stainless steel for specialised medical waste equipment such as the **Buckley Needle destroyer**
- Incinerators, burners, ovens
- Specialised products in stainless steel and carbon steel for the Petrochemical and Mining Industry
- Flanges, thermo couples, pinions, gears, sprockets, gear racks, pulley drives.
- Tube sheets, heat exchanges and valves.

We pride ourselves in our high service levels and quality control, ISO 9001:2000 regulatory Requirements and selected SABS approved products. Our sound engineering knowledge enables us to deal with all the challenges and producing cost effective products.

Buckley Flange & Steel CC.

Tel : +2711 421 8145

Fax : +2711 421 9297

E-mail : dudley@buckleyfs.co.za

Mobile : 082 565 8478

5

Stand 5 : Sharp Move Trading T/A Premier Medical Waste Operations

Contact : Dr Zola Mbovani

Tel : 021 386 8922

Fax : 021 386 6058

Email: zola@netactive.co.za



6

Stand 6 : Wasteman Healthcare

The interests of all generators of waste in the Industrial and Commercial sectors are best served, by a responsible service provider, through the provision of a "Total Waste Management Solution". Wasteman offers its Clients a one-stop service, through which they are able to outsource all site waste services with associated risk management.

It is thereby ensured that all suitable systems are fully integrated, to provide the most efficient hygienic, cost-effective and environment compliant solution for the Client. On-site Waste Management A key component in the provision of a *Total Waste Management Solution* is the provision of an on-site waste management service. Through the correct implementation of this service, all aspects of managing the waste streams generated are accurately controlled as well as the provision of suitable equipment. It is thereby ensured that all suitable systems are fully integrated to provide the most efficient, hygienic, cost-effective and environmental compliant solution for the Client.

The Total Waste Management Solution would include the correct handling, containment, control, transport, and disposal of general and hazardous waste in an environmentally sound and responsible manner, and in compliance with all relevant prevailing legislation.



Stand 7: Solid Waste Technologies SA (Pty) Ltd.

WTSA was established in 1993 to seek business opportunities within the waste sector in South Africa.

The company conducted research into various Waste Technologies internationally and signed agreements with the very best in the United States and United Kingdom. Some of these technologies include Waste to Energy, Automatic Waste Recycling Systems and the manufacturing of products from recycled materials.

SWTSA has been selected as a preferred health waste partner in South Africa by Stericycle, the largest Health Care Waste Systems Supplier in the world. We are the owners of a 25 ton a day processing plant in Cape Town with a monthly capacity of 1200 tons and a plant at City Deep in Gauteng with a daily capacity of 50 tons and a monthly capacity of 2540 tons.

Contact : Heidi Ford

Regional Healthcare Manager

Wasteman KZN

Tel : +27 (031) 700 2451

Cell : +27 (082) 827 0481

Fax : +27 (031) 700 2452

E-mail : hford@wasteman.co.za

7

Tel: 021 556 9167

Fax: 021 556 9168

Email: info@swtsa.co.za

6 Hunt Road
Killarney Gardens
Cape Town
7441

P.O.Box 5007
Tygervally
Bellville
7536



8

Stand 8 :

The Institute of Waste Management of Southern Africa

The Institute of Waste Management of Southern Africa is a multi professional disciplinary organisation with voluntary membership established, not for gain, to promote the science and practice of waste management.

The IWMSA is committed to protecting the environment and people of Southern Africa through sustainable best practical environmental options by:

- Contributing to improving waste management standards and legislation...
- Supporting international, national and regional, trends in best environmental practices...
- Promoting the science and technology of waste management...
- Practicing affordable cost effective waste management...
- Educating and promoting sustainable best practical environmental options...

The Health Care Waste Forum Southern Africa

The Health Care Waste Forum Southern Africa is a non-profit member-based organisation open to all stakeholders of the Medical and Health Care Waste industry. The Forum was established from the Health Care Waste Interest Group, founded in 2000 under the auspices of the Institute of Waste Management of Southern Africa. Members of the Forum include representatives from public and private sectors with interests from where the products and materials are manufactured, to the use and implementation thereof and disposal of the waste generated as a result. Integral to the Forum is the continuous dialogue that is encouraged and stimulated between various parties in interactive and dynamic forum sessions. Our vision is to be the primary voice of the health care waste industry and our mission is to provide a strategic communication platform for the whole industry to share experiences on legislation, best practice, new information and network with industry stakeholders. The forum is accessible to all. Our core value is to operate within the policy and ethical frameworks delineating professional waste management.

Contact : **Gail Smit**
or Ann Oosthuizen
at Head Office on:

Tel: 011 675 3462
Fax: 011-675 3465

E-mail : iwmsa@telkomsa.net

Postal Address:
PO Box 79
Allen's Nek
1737

Weltevredenpark Shopping Centre
cr. Kanniedood & Rinyani Streets,
Weltevredenpark



9

Stand 9 : Howden Africa

Howden is a leading turnkey supplier of medical waste destruction systems, offering customised design, construction and commissioning of incineration and non-burn plants for this purpose. Primarily the company engineers, designs, constructs and commissions incinerators based on cost-effectiveness, and according to environmental regulations for medical waste disposal. Howden incineration systems are equipped with flue gas treatment plants that remove dust; neutralise acid gasses such as sulphur dioxide, hydrochloric and hydrofluoric acids; and absorb heavy metals from flue gasses. The development of these environmentally-friendly incinerators is part of the broader Howden gas handling solutions offering that has been used to meet required emissions at power stations, mine smelters and in heavy industry. Howden incinerators suitable for medical waste disposal include:

- Pyrolytic combustion and gasification systems with capacities up to 1 000 kg/hr
- Rotary kiln technologies with capacities up to 6 500 kg/hr
- General waste incinerators for smaller volumes of between 50kg and 100kg/hr

In addition to incinerators, Howden also offers non-burn medical waste treatment systems that shred, sterilise and deodorise waste using water and bleach. Howden engineers will be available at the Healthcare Waste Summit 09 – Display 14 – to provide further detail on medical waste disposal systems customised for individual applications.



Daniels Sharpsmart Compass (Pty) Ltd.

Stand 10 & 11 :

Compass Waste Services (Pty) Ltd.

Daniels Sharpsmart Compass (Pty) Ltd.

Compass Waste Services was established to provide a “First World” scientific approach to health care risk waste management. Compass revolutionized the health care risk waste industry in South Africa by pioneering the introduction of Bondtech autoclaves as an environmentally friendly alternate treatment method to incineration. Besides health care risk waste collection & treatment, Compass also offers a wide range of related products and services, including extensive training programmes and on-site management. Compass Waste is currently the largest medical waste treatment company in KZN and the Free State and is rapidly expanding into other provinces in South Africa.

Contact

Tel: +27 11 240 4000

E-mail: enquiries@howden.co.za

www.howden.co.za

10/11

Contact : Julie Venter

Marketing Manager

Compass Waste Services

Telephone: 031 267 9700

Facsimile: 031 267 9732

Cell Phone : 082 888 5775

Email: julie@compass.za.net

Website www.compass.za.net



12

Stand 12 : John Snow INC

JSI and its staff are dedicated to improving the health of individuals and communities throughout the world. We believe that all people are entitled to accessible, appropriate quality health care. To make this vision a reality JSI applies practical and innovative solutions in management, research, education, information and training.

Contact : Martha Mosiane

Project Coordinator
JSI/MMIS-SA Offices
Lord Charles Office Park
Brooklyn Road, Pretoria
Tel: +27 12 346 6940, ext 204
Mobile: +27 83 266 3448
Fax2mail: +27 86 541 3485
mmosiane@jsimmis.org.za
www.jsi.com



Table Top : Dynamic Enviroclean

Dynamic Enviroclean is a company with management experience of more than 20 years in the cleaning, hygiene and envirocare business. We are in compliance with all applicable health, safety and environmental requirements for our staff, our customers and the public. Services : Medical Waste Removal, Cleaning Services & Pest Control

Table Top

Contact : JJ Pienaar

Email:
dynamicenviroclean@iburst.co.za
Tel/Fax: 011 391-4057
Cell: 082 779 5607



Table Top : Choice Decisions 1148

Established in 2001 as a consulting service to the mining industry, Choice Decisions expanded its client base and product profile in 2009 to include a Medical Division.

This new Division focuses on the supply of products for the many varied aspects of Infection Control including:

- Surface Disinfection
- Equipment Disinfection
- Vehicle Disinfection
- Hand Decontamination, Hygiene & Skin care
- HealthCare Risk Waste
- Spill Kits
- Personal Protective Equipment & PPE Kits
- Water Purification
- Single-use medical items

Table Top

Contact: Pamela Gordon (Marshall)

011 452 4741
083 229 2286
cd1184@ananzi.co.za

4. Conference Program

The Health Care Waste Summit & Expo 2009

Day 1

Monday 18 May 2009

Time	Session	Speaker / Facilitator / Chairperson	Venue
07:00	On-Site Registration Opens for Speakers & Delegates All delegates and speakers are requested to please report to the on-site registration desk on arrival.	Conference Hostess: Ann Oosthuizen Secretary, The Health Care Waste Forum Southern Africa	Conference Centre Foyer
	Early Morning Refreshments		Exhibition Hall Khanya 1,2 & 3
	Summit Session 1 Best Practice Health Care Risk Waste Treatment and Disposal in Southern Africa	Session Chairperson : Mbaweni Manqele Director Duyaze Environmental Consultancy	Ilanga Room
08:50	Chairpersons Opening Remarks <i>Venue Orientations and House Rules</i>	Mbaweni Manqele Director Duyaze Environmental Consultancy	Ilanga Room
09:00	Official Welcoming and Opening Official Welcoming and Opening of the Health Care Waste Summit & Expo 2009.	Stan Jewaskiewitz Vice-President The Institute of Waste Management of Southern Africa	Ilanga Room
09:05	Keynote Opening Address: Committing to best practice governance and service provision in the health care waste sector.	Eddie Hanekom Deputy Director: Waste Governance Department of Environmental Affairs and Development Planning	
09:15	Getting to Grips with the Treatment Capacity In Southern Africa to Minimise Health Care Waste and Provide More Effective Health Care Waste Management Solutions <ul style="list-style-type: none"> Analysing existing and new technologies available for Health Care Risk Waste in Southern Africa Evaluating present permitting issues with regard to new technology Are the permitting requirements efficient for new technology? Evaluating the current status of permitting for the South African Health Care Waste Service providers 	Kelello Ntoampe Directorate: Authorisation & Waste Disposal Management, Department of Environmental Affairs and Tourism, South Africa & June Lombard Director Icando	Ilanga Room
10:00	International Keynote Address: Global Health Care Risk Waste Treatment – The international perspectives on: <ul style="list-style-type: none"> Evaluating the international state within all forms of medical waste treatment and disposal in both 1st, 2nd and 3rd world countries Can global problems within the medical waste industry be overcome by implementing alternative forms of technology? Reducing the lack of urgency in the South African Health Care Waste sector by benefiting from other treatment technologies that meets up with proven international environmental standards 	Pit Suessmann Sterifant International Holding AG	Ilanga Room

	<ul style="list-style-type: none"> • Merging international standards with current Southern African specifications to ensure best practice health care risk treatment and disposal • How can international standards and specifications applied within South African context? • The need to evaluate the implementation of systems and strict control of records <p>Responsible treatment and disposal – an international legal perspective on the responsibilities of both service providers and governments</p>		
10:30	Mid- Morning Refreshments for Delegates and Speakers		Exhibition Hall Khanya 1,2 & 3
11:00	<p>The Implementation of the New National Health Care Waste Management Strategy for the South African Health Care Waste Sector</p> <ul style="list-style-type: none"> • Evaluating the impact, benefits and solutions encrypted in the New National Health Care Waste Management Strategy • How will this new strategy benefit and impact the <ul style="list-style-type: none"> ○ Health Care Industry? ○ The Waste Management Industry? ○ The Health Care Waste Industry? • Balancing the strategy with the required treatment capacity available • What are the current projections for the strategy to work effectively and herewith benefiting industries from cradle to grave <ul style="list-style-type: none"> ○ What manpower will be needed for the implementation of the strategy? ○ What is the cost benefit factor for the implementation of the strategy? • Analysing the availability of efficient equipment for rolling out the strategy • What will be required from both Health Care Waste service providers and generators for the strategy roll out? 	<p>Dee Fischer Director: Waste Stream Management, Department of Environmental Affairs and Tourism, South Africa.</p>	Ilanga Room
11:30	<p>International Keynote Address: The Methodology for Validating the Efficacy of Cleaning Reusable Containers</p> <ul style="list-style-type: none"> • Integrating permitting and regulation with the use of reusable equipment • How clean is your clean container? • Overcoming the logistical challenges for reusable containers <ul style="list-style-type: none"> ○ Capacity in use? ○ Capacity in circulation? 	<p>Terry Grimmond Medical Microbiologist & Clinical Director The Daniels Corporation Australia</p>	Ilanga Room
12:30	Commercial Break		
12:50	Networking lunch for all delegates and speakers		Exhibition Hall Khanya 1,2 & 3
13:50	<p>International Address: US and UK Standards for microbiological efficacy testing - STAATT I, STAATT II, STAATT III, and IStAATT (1992-2009)</p>	<p>Edward Krisiunas President WNNW International United States of America</p>	Ilanga Room

14:30	Session Panel Discussion <ul style="list-style-type: none"> Health Care Risk Waste Treatment Capacity – The final frontier What does the future hold for treatment capacity in Southern Africa? <ul style="list-style-type: none"> Strategy Implementation Regulation and Governance Compliance Responsible Treatment Ethics How does Southern African treatment capacity and statistics compare to statistics from the rest of the world? What can you do as generator, service provider and regulator of Health Care Waste to reduce environmental risk in future 	Panelists : Dee Fischer Director: Waste Stream Management, Department of Environmental Affairs and Tourism, South Africa. Kelello Ntoampe Directorate: Authorisation & Waste Disposal Management, Department of Environmental Affairs and Tourism, South Africa Terry Grimond Medical Microbiologist & Clinical Director, The Daniels Corporation Australia Pit Suessmann Sterifant International Holding AG June Lombard Director Icando	Ilanga Room
15:00	Mid-Afternoon Refreshments for Delegates and Speakers		Exhibition Hall
	Summit Session 2 Legislative Platforms for Health Care Risk Waste in Southern Africa	Session Chairperson: Jenny Hall Environmental Lawyer Environmental Counsel CC	Ilanga Room
15:30	Reducing Provincial Regulation Overload by Promoting Respect and Compliance to National Industry Acts, Regulations and Specifications <ul style="list-style-type: none"> A look into the requirements for national regulations to the new National Waste Management Act Putting up a treatment plant in a province where your contract has been awarded in another Addressing the difficulty of provincial cross border Health Care Waste transportation and treatment Industry compliance: What is your role and responsibility? 	Jenny Hall Environmental Lawyer Environmental Counsel CC & Obed Baloyi Waste and Policy Management Department of Environmental Affairs and Tourism, South Africa	Ilanga Room
16:00	Panel Discussion: The current structure of penalties and enforcement on organisations that are showing misconduct within the legal platform for the South African Health Care Waste Industry. <ul style="list-style-type: none"> What are the penalties for law-breaking behavior and are these penalties seen as effective? How will the newly signed National Waste Management Act be enforced to eradicate unethical industry behavior, misconduct and wrong doing? What are the legal penalties according to the NWM Act How does the South African regulation for dealing with misconduct compare to other countries? The need of a greater input from national government departments when dealing with industry non-conformance. Are the legislators doing enough to secure and improve ethical behavior in the health care waste industry sector 	Panelists: Francis Craigie Strategic Compliance and Enforcement, The Department of Environmental Affairs and Tourism Eddie Hanekom Deputy Director: Waste Governance Department of Environmental Affairs and Development Planning Jenny Hall Environmental Lawyer Environmental Counsel CC Obed Baloyi Waste and Policy Management Department of Environmental	Ilanga Room

		Affairs and Tourism, South Africa	
17:15	Commercial Break		Ilanga Room
17:30	Informal Cocktail Reception with Live Entertainment	Sponsored by Solid Waste Technologies	Exhibition Hall Khanya 1,2 & 3

Conference Program

The Health Care Waste Summit & Expo 2009

Day 2

Tuesday 19 May 2009

Time	Session	Speaker / Facilitator / Chairperson	Venue
	Summit Session 3 Health Care Risk Waste at Generator Level	Session Chairperson : Mr Ramsook Loykisoonaal. Environmental Health Directorate National Department of Health.	Ilanga Room
08:00	Registration Opens for Day Delegates		Conference centre Foyer
	Early Morning Refreshments		Exhibition Hall Khanya 1,2 & 3
08:45	Chairperson's Remarks	Mr Ramsook Loykisoonaal. Environmental Health Directorate National Department of Health	
09:00	TENDERS FROM A LEGAL PERSPECTIVE <ul style="list-style-type: none"> Stressing the critical importance of standardising tendering specifications Highlighting the skills and guidelines required for the awarding of Health Care Risk Waste tenders in South Africa The importance of awarding tenders based on the technology used and level of service provided The loss of profit and financial viability related to "time constraints" on the tendering process 	Andrew Donnelly Shepstone & Wylie Attorneys	Ilanga Room
09:45	The Evaluation of Operational and Administrative Procedures of Health Care Waste Management in Public District Hospitals of South Africa	Sipho Vumase Chief Executive Officer Manguzi Hospital	Exhibition Hall Khanya 1,2 & 3
10:15	Mid-morning Tea for all Delegates and Speakers		
10:45	Analysing the Risks Involved With Generators Not Taking Up the Responsibility of Proper Waste Segregation <ul style="list-style-type: none"> Investigating the environmental and treatment risks involved With whom should the responsibility rest to ensure proper and adequate risk waste segregation? Evaluating the risks that sub-standard equipment supplied by the Service Provider has on the workers Evaluating the corporate responsibility as Health Care Waste generator Managing waste in a safe and responsible manner in order to promote sturdy Health Care Waste ethics 	Janet Magner Director Magallan Risk Services & Mike Smith Microbiologist & Academic	Ilanga Room
11:15	Pharmaceutical Waste in a Community Pharmacy <ul style="list-style-type: none"> Legislative requirements Safe operating procedures for the management of expired and unused pharmaceuticals Correct treatment technologies for pharmaceutical 	Johan Bothma Executive Director CPS	Ilanga Room

	waste		
11: 45	Commercial Break		
12:00	A visionary outlook into the Health Care Waste Industry : General Information Session on the HCWF	Janet Magner Chairperson The Health Care Waste Forum SA	
12:30	Networking Lunch for all Delegates And Speakers		Exhibition Hall Khanya 1,2 & 3
13:30	Waste Track and Trace - Health Care Waste Statistics at your Fingertips <ul style="list-style-type: none"> Adhering to the need for introducing a national recording system for Health Care Risk Waste processing Assigning recording responsibility from Cradle to Grave Manual recording vs. electronic track and trace Identifying ways of minimising generator admin overload Combining Track and Trace possibilities with a national Health Care Waste information system 	Brian Delcarme Senior Lecturer and Researcher Cape Peninsula University of Technology	Ilanga Room
14:00	Case study : The challenges and solutions for HCWM in a rural setting	Marius Greyling North West Provincial Government	Ilanga Room
14:30	Commercial Break		
14:40	Summit Session 4 Conclusive Open Discussion	Mbaweni Manqele Director Duyaze Environmental Consultancy	Ilanga Room
	Feedback, Suggestions, Comments and Action Plans to be discussed in detail based on: <ul style="list-style-type: none"> Linking governmental action plans and strategies with Service Provider's planning and objectives Developing partnerships between government and the HCW Industry to ensure compliance and good governance Action plans for creating better segregation at source Strategies for capacity building at all levels Creating learnerships for accredited training 	Janet Magner Chairperson : The Health Care Waste Forum Southern Africa	Ilanga Room
15:40	Commercial Break Incentive Draws Final comments captured on conference evaluation forms Chairpersons Closing Remarks	Mbaweni Manqele Director Duyaze Environmental Consultancy	Exhibition Hall Khanya 1,2 & 3
16:00	Close of Summit and Mid-Afternoon Tea <i>(Please ensure that you hand in your Summit evaluation form at the registration desk before departing from the event premises)</i>		

5. Speakers Profiles and Abstracts

Conference Chair

Mbaweni Manqele
Director
Duyaze Environmental
Consultancy

Mbaweni Manqele holds an M.Ed (Environmental Education) from Rhodes University. She has been involved in Adult Education for the past 20 years and has been lecturing on behalf of Rhodes University part time as a consultant Tutor for long distance Education Students.

Mbaweni Manqele has also been involved in learning material development which was the main focus of her Thesis. Currently she is involved as a facilitator for developmental projects where she is expected to work with adult groupings from different backgrounds. She has been involved in training municipal officials in three different provinces on waste management. She was also part of the Project Team which was contracted by the DAEA to facilitate the public participation process of the KZN Waste Bill.

Her experience history as an educator and facilitator dates back to 1986 where she was a teacher leader for Biological Sciences up to 1991 where she joined KZN Wildlife (Natal Parks Board) as an education officer. In 1995, she joined a National Environmental NGO as an Organisation Development and Training facilitator until 2004 when she joined Duyaze Environmental consultancy which focuses on training and public facilitation.

Summit Session 1

Best Practice Health Care Risk Waste Treatment and Disposal in Southern Africa

Keynote Opening Address: Committing to best practice governance and service provision in the health care waste sector.

Eddie Hanekom

Deputy Director: Waste
Governance
Department of Environmental
Affairs and Development
Planning

Eddie Hanekom is an Environmental Health Practitioner (EHP) of profession. After completing his studies at the Cape Technicon and the Free State Technicon he started working for the National Department of Health as EHP in 1981. There he worked in the environmental and occupational health field until 2003 and going through the ranks to reach the position of Control EHP.

At the end of 2003 Eddie joined the Department of Environmental Affairs and Development Planning and started to specialise in waste management. He is currently employed at the Department of Environmental Affairs and Development Planning as Deputy Director. Since 1996, Eddie has been closely involved in health care waste management and is now in the process of finalising the Health Care Waste Regulations for the Western Cape Province in South Africa.

Forum Discussion: Getting to Grips with the Treatment Capacity in Southern Africa to Minimise Health Care Waste and Provide More Effective Health Care Waste Management Solutions

Kelello Ntoampe

Directorate: Authorisation &
Waste Disposal Management,
Department of Environmental
Affairs and Tourism, South Africa

Kelello Ntoampe is a registered Professional Natural Scientist (SACNASP 400124/2000) with extensive hands on expertise in integrated environmental management; water resources management; integrated waste management; Safety, health and quality management.

She holds a Bachelor of Science Degree in Chemistry, Masters in Environmental Studies from the University of New South Wales in Australia and an honors degree in Conflict Management from Nelson Mandela Metropolitan University

&

She started her career as a trainee Hydrogeologist working for the Italian Groundwater Project in Lesotho, still in the water industry she moved to environmental impact management. She later moved to the SHERQ field with a huge emphasis on waste management and has been in the field ever since.

She is currently working for the Department of Environmental Affairs & Tourism (DEAT) in Pretoria. Kelello's responsibilities at the DEAT covers waste disposal authorisations in terms of the ECA and remediation of contaminated land.

June Lombard

Director
Icando

June Lombard is a registered professional natural scientist with an MSc degree in plant physiology. She is an EAPSA certified Environmental Assessment Practitioner, a senior fellow and past president of the Institute of Waste Management of Southern Africa and an environmental educator. She has spent many years lobbying for the development of SAQA standards and qualifications for waste and environmental management and her company is provisionally accredited as a training provider with the Local Government SETA in the field of Environmental Practice.

June has been involved in environmental, waste management and environmental capacity development projects both in SA and internationally, having worked in developing countries such as Botswana, Yemen, Philippines and Tanzania. She was responsible for capacity development aspects of the DEAT's National Waste Management Strategy Implementation project, which included a Health Care Waste component, and has managed several EIA processes involving both incineration and autoclave HCW treatment facilities. She is also actively involved in training and education in the HCW sector.

Getting to grips with the treatment capacity in south Africa to minimise health care waste impacts and provide more effective health care waste management solutions

Kelello Ntoampe

Directorate: Authorisation &
Waste Disposal Management,
Department of Environmental
Affairs and Tourism, South Africa

&

June Lombard

Director
Icando

ABSTRACT

This paper examines challenges in the management of HCRW that relate to available treatment capacity and the authorisation of HCRW treatment facilities in South Africa. These challenges, which were identified during the provincial discussions leading up to this summit, included the following:

- Authorities' refusal to recognise the critical shortage of treatment capacity
- Authorities' inflexible stance towards alternative technologies and solutions
- Inadequate or inappropriate HCRW policies and standards
- Excessive delays in the processing of environmental and permit applications
- Regulator's lack of response to requests for assistance
- Inconsistencies in application of regulations

These challenges form the basis of a dialogue between the HCW industry, as applicant, and DEAT, as the regulatory authority, each representing widely differing perspectives. The discussion identifies critical issues that need to be resolved, looks at actions taken during the past year to address the challenges, and seeks to find common ground that will enable both sides to move forward with increased cooperation and efficiency.

If the challenges are to be met, both sides must interrogate new technologies available for Health Care Risk Waste in Southern Africa with open minds; and evaluate current permitting issues relating to new technology especially in the light of the major changes in authorisation procedures brought in by new National Environmental Management: Waste Act (Act 59 of 2008) and the NEMA EIA amendments. The appropriateness of authorization requirements for new technology must also be debated. An additional, potentially monumental challenge will be to prevent the entire regulatory system experiencing a hiatus as a result of the profound institutional changes that will take place in the creation of a new Ministry of Water and Environmental Affairs.

International Perspectives: Global Health Care Risk Waste Treatment

The Implementation of the New National Health Care Waste Management Strategy for the South African Health Care Waste Sector

Dee Fischer

Director: Waste Stream Management, Department of Environmental Affairs and Tourism, South Africa.

The Implementation of the New National Health Care Waste Management Strategy for the South African Health Care Waste Sector

- Evaluating the impact, benefits and solutions encrypted in the New National Health Care Waste Management Strategy
 - How will this new strategy benefit and impact the
 - Health Care Industry?
 - The Waste Management Industry?
 - The Health Care Waste Industry?
 - Balancing the strategy with the required treatment capacity available
 - What are the current projections for the strategy to work effectively and herewith benefiting industries from cradle to grave
 - What manpower will be needed for the implementation of the strategy?
 - What is the cost benefit factor for the implementation of the strategy?
 - Analysing the availability of efficient equipment for rolling out the strategy
- What will be required from both Health Care Waste service providers and generators for the strategy roll out?

International Keynote Address: The Methodology for Validating the Efficacy of Cleaning Reusable Containers

“Statutes, Service & Science”

Terry Grimmond
Medical Microbiologist & Clinical
Director
The Daniels Corporation
Australia

Terry Grimmond is an Australian medical microbiologist. He is a Fellow of the Australian Society for Microbiology and Clinical Director of Daniels International. He has 40 years experience in university hospitals and the commercial arena in the fields of Epidemiology, Infection Control and Medical Education and is an international speaker on Sharps Injury Prevention and Healthcare Risk Waste.

He serves on Sharps Container Standards in five countries, and was instrumental in the completion of the 2008 South African Sharps Container Standard. He is Canada's Expert delegate to ISO on Injection Safety, and was recently appointed Chair of the Task Group to review the US Sharps Container Standard. He served on the Australian Federal Government Committee that wrote their National Healthcare Waste Guidelines; and on the Industry Committee that wrote the Australian Healthcare Waste Industry Code.

Terry has visited South Africa many times and recently established a foundation to raise funds to reduce South African healthcare worker exposure to Bloodborne Pathogens. He is author of some 41 papers and has spoken at more than 120 assemblies in 13 countries and received the ASM Distinguished Teaching Award and an Australian Outstanding Innovation Award for his work.

Would you please welcome terry to speak on the use of reusable containers for healthcare risk waste.

Synoptic Curriculum Vitae :

- 40 yrs medical microbiology, epidemiology and infection control in Univ. Hospitals & Corporate sector
- Fellow of the Australian Society for Microbiology; Grad Dip in Adult Educ & Training.
- Publications: 41; Oral papers: 39; Invited Speaker: 125 conferences in 13 countries.
- Currently: Consultant Microbiologist and International Clinical Director, The Daniels Corporation
- Current Committee Member:
 - ISO TC84 WG7 on Injection Safety (Canadian nominee).
 - International Tech C'tee on HealthCare Waste: International Solid waste Association
 - South African Bureau of Standards: Sharps Containers
 - Canadian Standards Association: Sharps Containers
 - Standards Australia & NZ: Reusable Sharps Containers
 - Standards Australia & NZ: Disposable Sharps Containers
 - Standards Australia: Clinical Waste
 - Amer Soc Testing & Materials: Chairman, Task Group reviewing Sharps Container Standard
- Former Committee Member:
 - Australian NHMRC Federal Committee on Clinical Waste.
 - Standards Australia: Microbiological Safety in Laboratories.
 - A&NZ Clinical Waste Management Industry Code of Practice C'tee.

-
- SA Gov C'tee drafting Clinical Waste Regulations.
 - Chairperson, Sth. Aust. Government Review: Medical Waste Management
 - 2009 May, Keynote Speaker, Medical Waste Summit, Johannesburg, South Africa.
 - 2009 Mar, Speaker, Sharps Injury Seminar, Montreal, QC Canada.
 - 2008 Oct, Invited Speaker, Greater NY Hosp Assoc Educ Seminar (Sharps Injury Prevention).
 - 2007 Oct, Keynote Speaker Vic Inf Contr Assoc Annual Conf, Melb. (Sharps Injury Prevention).
 - 2006 June, IFIC Internat. Congress Sth Africa: (Safety Device Efficacy; SA HCW BBP Plight).
 - 2006 May, Invited Speaker, Greater New York Hosp Assoc (Sharps Injury Prevention).
 - 2005 May, Invited Speaker, USA APIC SW Region (Sharps Injury Prevention)
 - 2004 Aug, Keynote Speaker, NZ Annual Infection Control Conf. (Sharps injuries)
 - 2003 Nov, Invited Speaker, Sharps Injury Symposia, London, Leeds UK
 - 2002 June, Invited Speaker, Infection Control Nurses Assoc London (Sharps Injury)
 - 2002 May, Invited Speaker, Infection Control Practitioners Toronto Canada (Sharps Injury)
 - 2001 May, Invited Speaker, Nat. Assoc. of Theatre Managers, London UK (Sharps Injury)
 - 2000 Invited Speaker, Ministry Health, France (Clinical Waste & Sharps Management)
 - 1998 Graham Ayliffe Inaugural Keynote, UK ICNA Annual Conf. (Medical Waste Management)
 - 1992 ASM Australian Distinguished Teaching Award
 - 1992 South Australian Outstanding Innovation Award (Medical & Sharps Waste Reduction Systems).

International Keynote Address: The Methodology for Validating the Efficacy of Cleaning Reusable Containers

“Statutes, Service & Science”

Abstract

Permits and Regulations

Terry Grimmond
Medical Microbiologist & Clinical
Director
The Daniels Corporation
Australia

Governments ensure safety of publics and environment in the first instance through broad parliamentary acts which in turn are implemented through detailed regulations formulated by government departments who, in granting permits to operate, may require additional procedures through their interpretation of the regulations. In addition, adherence to Standards may be required by law if these are incorporated under the act or regulation. Throughout this process in healthcare risk waste (HCRW) management, the foremost consideration is risk which, put simply, is probability x consequence, i.e. how frequent does an adverse event occur, and how severe is its outcome? For waste, risk can generally be classified as occupational, environmental, legal, political, social or economic.

Service logistics

How many in-use and spare reusable containers do you need to adequately service a client or community? The answer is multi-factorial and depends on: client size; waste volumes generated by client; number of locations in client facility; distance of factory from client; frequency of client service; client storage availability; client change-out protocols; legislation; number transfer stations; and waste stream types. Generalizations are difficult but usually the number of spares off-site will equal (sometimes exceed) the number of reusable containers on-site at client facility.

Validation of Cleaning Efficacy of Reusables

Reusable bins can potentially be contaminated with pathogens and decontamination processes must ensure those pathogens are not disseminated to hospital environment, staff or patients. Before discussing processes however, we need have clear and agreed understanding of the terminology surrounding decontamination. “Decontamination” renders an item safe for handling and use; Sterilization is the absence of vegetative (non-sporing) organisms and spores; Disinfection is the removal of vegetative pathogens; and cleaning is the removal of soil and organic matter. “Sterilization, “disinfection” and “cleaning” are all modes of “decontamination”. Of note is that sterilization is the only decontamination mode where removal of organisms is measured in logs (6 log removal of spores); disinfection and cleaning are not defined in “logs”. Also of note is that the literature on these terms is almost entirely related to risk-prone surfaces in hospitals or food technology and care must be taken when extrapolating to surfaces (such as HCRW bins) that do not share such risk.

Currently in SA, reusable Healthcare Risk Waste (HCRW) containers are required by

law to be disinfected prior to reuse. This requirement is through incorporation of two Standards, SANS 10229-1:2005 and SANS 10228:2006 under the National Road Traffic Act of 1996.

Unfortunately no definition of disinfection or means of disinfection validation are given in the above SA Standards or regulations and this has lead to confusion as to what is required and how it should be adjudged. SANS 452:2008 has tried to accommodate this.

In assessing the necessity for disinfection of HCRW bins it is prudent to examine the scientific literature and epidemiological evidence on disease transmission risk. Beforehand, it behooves us to recall that disease transmission requires a Chain of Infection and all the following links in the Chain must occur before disease takes place: Pathogen presence; Pathogen numbers; Pathogen virulence; Susceptible host; Transfer from source to host; Correct entry into host.

It can be conservatively estimated that in USA, Australia, New Zealand and Canada, some 800 million reusable HCRW bins have been processed in the 20 years HCRW has been under scrutiny. In no instance has disease transmission been documented. With such history coupled with the above disease transmission principles, the US Centers for Disease Control and Prevention recommend cleaning, not disinfection, of such bins.

Could the disinfection requirement in SA be worth re-visiting?

International Address:

**US and UK Standards for microbiological efficacy testing:
STAATT I, STAATT II, STAATT III, and IStAATT (1992-2009)**

Family name: Krisiunas

First name: Edward Peter

Date of birth: February 25th, 1960

Nationality: Naturalized USA (Born in Canada)

Membership of professional bodies:

- American Society of Clinical Pathologist
- Association for Professionals in Infection Control
- and Epidemiology
- American Biological Safety Association
- Hospital Infection Society (UK)
- International Health Care Waste Network
- Council Member
- International Solid Waste Association
- Council Member - Health Care Waste Working Group
- Medical Waste Institute - USA
- International Society for the Analytical Assessment
- of Treatment Technologies (IStAATT)

Other skills: Associate Editor - Journal of the American Biological Safety Association & Referee - Journal of Hospital Infection

Present position: President, WNNW International (Years within the company:8)

Key qualifications:

- Medical waste management programs – national und international
- Medical waste minimization progams
- Evaluation of medical waste treatment technologies, microbiological efficacy testing of medical waste treatment technologies
- Development of guidance documents on the selection of treatment technologies, and the development and implementation of national medical waste plans for a number of countries.
- Infection Control
- Occupational Health and Safety

Session 1

Best Practice Health Care Risk Waste Treatment and Disposal
Session Panel Discussion

Panelists :

Kelello Ntoampe

Directorate: Authorisation &
Waste Disposal Management,
Department of Environmental
Affairs and Tourism, South Africa

Dee Fischer

Director: Waste Stream
Management, Department of
Environmental Affairs and
Tourism, South Africa.

Terry Grimond

Medical Microbiologist & Clinical
Director, The Daniels
Corporation
Australia

Frank-Michael Phieler

Managing Director
Sterifant International Holding
AG

June Lombard

Director
Icando

Edward Krisiunas

President
WNWN International
United States of America

Discussion Points

- 1) Health Care Risk Waste Treatment Capacity – The final frontier
- 2) What does the future hold for treatment capacity in southern Africa?
 - Strategy Implementation
 - Regulation and Governance
 - Compliance
 - Responsible Treatment Ethics
- 3) How does Southern African treatment capacity and statistics compare to statistics from the rest of the world?
- 4) What can you do as generator, service provider and regulator of Health Care Waste to reduce environmental risk in future?

Summit Session 2

Legislative Platforms for Health Care Risk Waste in Southern Africa

Reducing Provincial Regulation Overload by Promoting Respect and Compliance to National Industry Acts, Regulations and Specifications

Jenny Hall

Environmental Lawyer
Environmental Counsel CC

Jenny Hall is an admitted attorney who has specialized in environmental law and policy for more than 15 years. She holds LLB and LLM degrees and is currently working part-time on a PHD on environmental and administrative law. Prior to establishing Environmental Counsel in 2000, Jenny was employed by Webber Wentzel Bowens and subsequently became managing director of Environmental Risk Services, a division of Alexander Forbes.

Jenny has assisted clients from all sectors on a range of waste management issues. In particular, Jenny has been involved in the drafting and implementation of several policies and legislation. She was on the project steering committee which oversaw the development of the White Paper on Integrated Pollution and Waste Management and National Waste Management Strategy. More recently she has been the drafter of the National Management: Waste Bill, 2006, the National Environmental Management: Air Quality Act, 2004, the Environmental Impact Assessment Regulations, 2006 and part of the drafting team of the National Environmental Management Act, 1998 as well as several municipal waste management by-laws. Jenny was also appointed as the legal expert for the for the National Waste Management Strategy Implementation Project, which included developing concept regulations on health care waste.

&

Apart from her experience in developing policy and legislation, Jenny has experience in the practical implementation of legislation through, inter alia, conducting audits on compliance with waste legislation and the development of a compliance and enforcement strategy for the Gauteng Provincial Department of Agriculture, Conservation, Environment and Land Affairs. Jenny is currently part of a team assessing alternative waste treatment technologies for the City of Johannesburg.

Obed Baloyi

Waste and Policy Management
Department of Environmental
Affairs and Tourism, South Africa

Obed Baloyi holds a BA Honours degree from Wits University majoring in Environmental Management; Geographic Information Systems; Rural Development and Urbanisation in Developing Countries. He has been working for government for the past seven years. He is also currently the Director responsible for waste policy and information management with in the Department of Environmental Affairs and Tourism.

Summit Session 2

Legislative Platforms for Health Care Risk Waste in Southern Africa
Session Panel Discussion:

**The current structure of penalties and enforcement on organisations
that are showing misconduct within the legal platform for the South
African Health Care Waste Industry.**

Panelists:

Jenny Hall

Environmental Lawyer
Environmental Counsel CC

Obed Baloyi

Waste and Policy Management
Department of Environmental
Affairs and Tourism, South
Africa

Francis Craigie

Strategic Compliance and
Enforcement,
The Department of
Environmental Affairs and
Tourism

Eddie Hanekom

Deputy Director: Waste
Governance
Department of Environmental
Affairs and Development
Planning

1. What are the penalties for law-breaking behavior and are these penalties seen as effective?
2. How will the newly signed National Waste Management Act be enforced to eradicate unethical industry behavior, misconduct and wrong doing?
3. What are the legal penalties according to the NWM Act?
4. How does the South African regulation for dealing with misconduct compare to other countries?
5. The need of a greater input from national government departments when dealing with industry non-conformance.
6. Are the legislators doing enough to secure and improve ethical behavior in the health care waste industry sector?

Summit Session 2

Legislative Platforms for Health Care Risk Waste in Southern Africa
Session Panel Discussion:

The current structure of penalties and enforcement on organisations that are showing misconduct within the legal platform for the South African Health Care Waste Industry.

Francis Craigie
Strategic Compliance and
Enforcement,
The Department of
Environmental Affairs and
Tourism

Frances Craigie currently holds the position of Director: Enforcement in the national Department of Environmental Affairs and Tourism (DEAT), where she is responsible for the national enforcement programme for environmental quality and protection legislation and assists in the co-ordination of the Environmental Management Inspectorate (EMI), (“Green Scorpions”). Prior to her transfer to the national department in 2008, Frances was employed as the Director: Strategic Compliance and Enforcement in the Department of Agriculture, Conservation and Environment (GDACE). She was responsible for the roll out of the EMI in the Gauteng province as well as the development of that Department’s compliance and enforcement programme (pollution, waste, environmental impact assessment and biodiversity). Before joining GDACE, Frances practised as an attorney in Johannesburg, and thereafter worked for Alexander Forbes Risk Services as an environmental legal consultant and business risk analyst. Frances holds an LLB degree from the University of Cape Town and is an admitted attorney of the High Court of South Africa.

Summit Session 3

Health Care Risk Waste at Generator Level

The Promotion of Good Governance and Best Practice Health Care Waste Management

Ramsook Loykisoonalal

Deputy Director:
Environmental Health,
Directorate: Environmental
Health, National Department of
Health (NDoH)

Ramsook Loykisoonalal has a National Diploma: Public Health and B. Tech. Degree: Environmental Health. Previously, Ramsook worked at the Gauteng Department of Health, Environmental Health Unit after which he was transferred to the National Department of Health (NDoH). One of his expertise at National Health is the management of Health Care Waste. He has been employed by the Government sector for the past 11 years with vast experience, exposure and knowledge on health care waste management. He works closely with national and international bodies, NGO's, CBO's, private sector, etc in providing leadership, guidance, assistance and support on health care waste management issues in the country.

Tenders from a Legal Perspective

Andrew Donnelly
Shepstone & Wylie Attorneys

NAME : ANDREW FARRELL DONNELLY

1960	BORN, DURBAN SOUTH AFRICA
1977	MATRICULATED, DURBAN HIGH SCHOOL
1978 – 1982	BA LLB (UNIVERSITY OF NATAL, DURBAN)
1983 – 1984	SOUTH AFRICAN DEFENCE FORCE
1985 – 1986	ARTICLES, DURBAN
1987	SHEPSTONE & WYLIE, PROFESSIONAL ASSISTANT, LITIGATION DIVISION
1989	PARTNER, SHEPSTONE & WYLIE
1995	HEAD OF LITIGATION : SHEPSTONE & WYLIE
1999 TO DATE	MEMBER EXECUTIVE BOARD

PROFESSIONAL QUALIFICATIONS :

1. BA LLB (1984)
2. DIPLOMA IN MARITIME LAW (1986)
3. CERTIFICATE IN TAX COMPETENCY (1995)
4. DIPLOMA IN INSOLVENCY LAW (1996)
5. NOTARY PUBLIC (2007)

SPECIALISED INTEREST OF LAW

COMMERCIAL LITIGATION WITH FOCUS ON CREDIT, INSOLVENCY DISPUTES, TENDER AWARDS AND JUDICIAL REVIEWS THEREOF, CONSTRUCTION AND ENGINEERING DISPUTES.

PUBLIC PROFILE CASES

1. DURBAN CITY COUNCIL VS WINCHESTER – CONSTITUTIONAL CHALLENGE WITH REGARD TO LICENSING
2. DURBAN TURF CLUB – WEIGHT DISPUTE – HIGH COURT JUDICIAL REVIEW OF THE DECISION OF STIPENDARY STEWARDS ON THE HANDICAPPING OF HORSES ENTERED FOR THE "JULY"
3. FREIGHT FORWARDING ASSOCIATION VS TRANSNET (APPEAL COURT) – THE CONSTITUTIONAL RIGHT OF FREIGHT FORWARDERS TO HAVE ACCESS TO THE CONTAINER DEPOT AT DURBAN HARBOUR
4. DORBYL VS DTI (APPEAL COURT) – THE IMPLEMENTATION OF AN ARBITRATION AWARD AND THE APPLICATION OF THE PRINCIPLES OF GEIS
5. INTERSHORE VS DEPARTMENT OF TRADE AND INDUSTRY (APPEAL COURT) – THE CALCULATION OF GEIS AND THE VALUE OF OIL RIGGS EXPORTED TO ANGOLA.
6. ILEMBE CONSORTIUM VS DUBE TRADEPORT AND ACSA (ONGOING) – JUDICIAL CHALLENGE TO THE IMPLEMENTATION OF A TENDER

The Evaluation of Operational and Administrative Procedures of Health Care Waste Management in Public District Hospitals of South Africa

Sipho Vumase
Chief Executive Officer
Manguzi Hospital

Full names : **Sipho Bongane Vumase**
Birth date : 29 October 1962
Place of birth : Kosi Bay, KZN, RSA

Qualifications (Highlights)

- Grade 12, 1983 Shayina High School, KZN, SA
- Diploma, General Nursing, 1988
- Diploma, Midwifery, 1990
- Diploma psychiatric Nursing, 1992
- Diploma Rural Development, UNISA, 1996
- Degree, BA Cur, 1997
- Degree, Master in Business Administration (MBA), 2007

Work experience (Highlights)

- Regional AIDS and TB Coordinator (Umkhanyakude District), 1998 -1999
- Project Manager for PMTCT (University of KwaZulu Natal), 2000- 2002
- District Health Programmes Manager (Umkhanyakude), 2002- 2004
- Hospital Manager, eDumbe CHC (Paulpietersburg) 2004- 2006
- CEO, Manguzi Hospital, KZN, 01 March 2006 to date

Involvement in Health Care Waste Management

- was a generator for health care waste (10 years) as a practicing professional nurse in general and surgical wards of a district hospital
- established health care waste committees in eDumbe CHC and Manguzi Hospital
- developed health care waste institutional circulars in eDumbe and Manguzi Hospitals
- Chairperson of Manguzi Hospital health care waste committee
- Member of Umkhanyakude District Health Care Waste Forum
- Currently, a Doctoral of Technology candidate, specializing on Health Care Waste (finalizing a dissertation titled “ evaluation of operational and administrative procedures of HCW management in Public District Hospitals of South Africa”

The Evaluation of Operational and Administrative Procedures of Health Care Waste Management in Public District Hospitals of South Africa

Sipho Vumase
Chief Executive Officer
Manguzi Hospital

S Vumase (Doctoral candidate DUT), Dr M de Beer, Ms June Lombard

The general consensus amongst most researchers are that hospitals do not have enough capacity in terms of HR and material resources to mitigate health care waste (HCW) problems (Gabela, 2007; African Bank, 2005; and Moran, 2006). This problem has been identified by academia and it is also a focus of various articles of South African origin (DACEL 2005:8; Gabela, 2007:18; and Bent, Rogers, Simane, and Rohwer, 2007:11).

The problems relating to HCW management (HCWM) are ongoing, with no apparent breakthrough in spite of the studies carried out (DACEL, 2005; Fischer, 2006; Moran, 2006; and Gabela, 2007). In the pilot and mini-research studies conducted by the above authors, the respective HCWM problems found was almost similar. The most common challenges according to African Bank (2005:14) were lack of (HCW management) guidelines; lack of information and consistency through out the Provinces on HCW management capacity to implement health care waste management practices; uncoordinated practices in the treatment and disposal of HCW; lack of clarity with regard to roles of hospital management; and absence of models to epitomize HCW best practice.

Whereas other Provinces such as Mpumalanga and Western Cape (DACEL, 2007:10-11), have already piloted HCW Waste Information Systems (WIS), DANIDA (2006) anticipates that WIS website roll out to other provinces could be thwarted by insufficient capacity and maintenance costs. This implies that commitment and attitudes of provinces in the implementation of the WIS would be a factor in its implementation.

In the Zeerust rural HCW project, the suitability of a low technology waste collection system was evaluated for collecting waste from rural clinics and hospitals, using one of the local hospitals as the site for a transfer facility (DEAT, 2006:14). One of the key findings of this study was the importance of the institutional capacity and management aspects around HCW systems.

On the basis of the above challenges, HCWM in the Public District Hospitals of South Africa (PDHSA) needs to be evaluated in terms of administrative and operational procedures in order to epitomize best HCWM model for PDHSA.

The objective of the proposed study is to critically evaluate the operational and administrative procedures of HCW Management. The HCW collection, transportation, treatment and disposal, organizational structures and personnel employed, capacity building and awareness raising, as well as the information systems used in the PDHSA will be examined with a view to building a model for

the optimization of HCWM on a best practice basis. This paper will discuss the approach and methodology of a proposed study that will evaluate the HCWM practices in 3 public District Hospitals in each of the nine (9) Provinces of South Africa.

Analysing the Risks Involved With Generators Not Taking Up the Responsibility of Proper Waste Segregation

Janet Magner
Director
Magallan Risk Services

Janet Magner is an Occupational Health, Safety and Environmental Specialist with a National Diploma in Safety Management (NADSAM) cum laude in 1995. She has completed many other short training courses with NOSA, attaining the Safety Management Training qualification (SAMTRAC) in 1993. During this year she also completed the Advanced Risk Management course with the Chamber of Mines. In 1998 she completed an Occupational Hygiene – Legislation course with the Pretoria Technicon.

Janet has had more than 15 years experience in Occupational Health, Safety and Environmental Management in both industry and healthcare. She has specialised in the development and implementation of integrated management systems that cover all aspects of Occupational Health, Safety and environmental risk management. In her capacity as Safety, Health and Environmental Manager for Afrox Limited she was extensively involved in the collation of statistics on incident reporting and analysis of incidents for both the industrial and the health care sections of the corporation. She has been involved in many investigations into the causes of incidents during her career.

Her more recent experiences in development work for projects such as Sustainable Health Care Waste Management in Gauteng and the Solid Waste Management Strategy for Swaziland has given her valuable insight and experience in health care waste management. Janet is a member of the Waste Management Institute and the current Chairperson for the Health Care Waste Forum Southern Africa

Mike Smith
Microbiologist & Academic

Mike Smith received his M.Sc. cum laude and his Ph.D. in 1987 at University of Natal, Durban. For that work he received the South African Association of Botanists Bronze medal for the best Ph.D. He has been on the teaching and research staff of the University for over 35 years, and retired as a Professor from the University of Kwa-Zulu Natal at the end of 2008.

During those years he taught a wide range of subjects in the biological sciences. He has expertise in the fields of environmental microbiology, pollution biology, biochemistry, plant physiology, analytical techniques and light and electron-microscopy. He has taught courses in plant and animal responses to disease; stress tolerance in plants, and bioprocess engineering. His most recent teaching was an applied cell biology for environmental engineers (run for civil engineers), and a course in pollution and remedial Biology.

He was a member of the Pollution Research Group at University of Kwa-Zulu Natal for five years before his retirement, and he and his co-workers were involved in collaborative research with the eThekweni Municipality and the Swedish Institute for Infectious Diseases in Stockholm on water and sanitation issues, especially the establishment of parasite loads in waste.

He has over 52 conference contributions to his credit both local and international, three book chapters and over 50 peer reviewed publications. He describes his hobbies as “vermiculture, water conservation, grey water re-use, gardening, classical music, whisky and red wine – and not necessarily in that order”.

Pharmaceutical Waste in a Community Pharmacy

Johan Bothma
Executive Director
CPS

DATE OF BIRTH : 9 August 1949
BIRTH PLACE : Koster
MARITAL STATUS : Married to Daleen. Four children: Abri, Rianda, Gerhard and Nadia.

1. ACADEMIC HISTORY

- Matriculated at Hoërskool Koster
- Obtained B.Sc. (Pharm.) from Potchefstroom University in 1974.

2. EXPERIENCE

- Worked as teller in First National Bank
- Drug Wise Counsellor
- Completed the following courses successfully:
 - Family Planning
 - Cholesterol
 - Asthma
 - Immunisation
 - Emergency medical assistant
 - Dermatology
 - Managing Director of Trust Pharmacy from 1976 to 2005
- Executive Director of CPS of PSSA (2005 to date)

3. PROFESSIONAL ACTIVITIES

- Board member of PSSA (Southern Gauteng Branch)
- Chairman of SAACP Southern Gauteng Branch from 1994 – 1995
- Member of the Gauteng Forum for Pharmacists
- Member of the Kempton Park Health Forum
- Honorary Secretary of SAACP National (1993 – 1994)
- Vice-President of SAACP National (1995 - 1997)
- President of SAACP (1997 – 2000)
- Chairman of CPS of PSSA Southern Gauteng (2001 – 2003)
- Established the CPS Waste Management Network 1 May 2008
- Presentation on Pharmaceutical Waste Management at SAAHIP Conference – 2-5 April 2009

4. COMMUNITY SERVICE

- Acted as Board Member and Member of the Rapportryers
- Vice-Chairman of the Government Body of the Hoërskool Birchleigh (responsible for the promotion of parent and community involvement. Chairman of Sport and Cultural Committees promoting sport and culture in school and the broader community)
- Member of the Gideons S.A.
- Guest speaker at WAU, schools, church groups, day-care centres, ATKV on the following topics:
 - sport related injuries
 - use of drugs in sport
 - use of drugs in general
 - correct use of medication
 - supplementary medicine in human wellness
 - training of manufacturers representatives

Waste Track and Trace - Health Care Waste Statistics at your Fingertips

Brian Delcarme

Senior Lecturer and Researcher
Cape Peninsula University of
Technology

Brain Delcarme has extensive qualifications, experience (+20 years) and skills in environment and health issues, sustainable development, teaching, project management and research. My career started off as a clerk in 1978 and progressed to being a Project Director, lecturer and researcher at the Cape Peninsula University of Technology.

Formal tertiary qualifications:

- National Diploma and Higher Diploma in Public Health: Peninsula Tachnikon, Bellville, Cape Town.
- Bachelor of Administration: University of the Western Cape, Bellville, Cape Town
- Master in Intercultural and International Management (Sustainable Development and Training): School for International Training, Vermont, USA
- Master of Environmental Management: Griffith University, Brisbane, Australia
- PhD Candidate, University of Cape Town (UCT): "Institutionalising Waste Management Information Systems"

Research Activities:

- 2005 -2006: Principle researcher " Developing and Implementing Preventative Strategies that will Ensure Safe Water Delivery to the Overberg Region" National Research Foundation Project: TRD 2004082000013
- 2005-2006 : Principle researcher " Food Hygiene and Sanitation for Informal Meat Trading in the Klipfontein District of the City of Cape Town"
- 2004 - 2007 : Co-researcher "Technology and Social Acceptance of Micro and Ultra Filtration Membrane Systems for the Purification of Household Drinking Water in Rural Communities" WRC Project K5/1227
- 2003 –2006 : Co-researcher " The evaluation and selection of small water treatment systems for potable water supply to small scale communities" WRC Project K5/14443
- 2002-2003 : Co-researcher "Guidebook to Alternative small scale desalination technologies for potable household water augmentation in South Africa" K5/1228/0/1
- 2001: Co-Researcher: "Fair Allocation of Resources for Community Development" SANPAD project in collaboration with Stellenbosch University & UCT

Publications and Conference Presentations:

Delcarme B. Water Pollution Control: Socio Economic Factors Affecting the Acceptance of a Small Scale Water Purification Plant. Paper presented at the Southern African Institute for Environmental Health, National Conference: 5-8 February 2006

Delcarme B. Definition and Institutionalisation of an Integrated Health Care Waste System for Effective Waste Management. In Proceedings: 8th World Conference on Environmental Health, Durban, 22-27 February 2004.

Delcarme B. Performance Measurements for Effective Environmental Health Management. In Proceedings: 8th World Conference on Environmental Health, Durban, 22-27 February 2004.

Delcarme B. Poster Presentation: A Conceptual Framework for Community Participation in Environmental Health. In Proceedings: 8th World Conference on Environmental Health, Durban, 22-27 February 2004.

Goldie I, Sanderson RD, Delcarme B.A., Seconna JD, Daries LM & Lodewyk L. A Guidebook on Household Water Supply for Rural Areas with Saline Groundwater. Report to the Water Research Commission . Gezina: Water Research Commission , 2004. WRC TT 221/04

Case study: The Challenges and Solutions for HCWM in a Rural Setting

Marius Greyling
North West Provincial
Government

Marius Johann Greyling was born in Johannesburg on the 4th February 1956. He completed my school education in Germiston and wrote his Matric exams at Goudrif Hoërskool in 1973. Thereafter he was in the army doing two years military service. In 1976 he enrolled at the then Witwatersrand Technicon for advance education doing my national diploma in public health and later the national higher diploma in public health. He started his career in 1979 at the peri urban board as a health inspector. Thereafter he moved to Bedford view municipality and springs town council.

In 1994 he was appointed as chief environmental health practitioner in the Zeerust sub district of the north west department of health.

Summit Session 4

Conclusive Open Discussion

Feedback, Suggestions, Comments and Action Plans

Session Led by:

Mbaweni Manqele

Director
Duyaze Environmental
Consultancy

&

Janet Magner

Chairperson : The Health Care
Waste Forum Southern Africa

- Linking Governmental action plans and strategies with Service Provider's planning and objectives
- Developing partnerships between government and the HCW Industry to ensure compliance and good governance
- Action plans for creating better segregation at source
- Strategies for capacity building at all levels
- Creating learnerships for accredited training

6. Abbreviations

AD	Assistant Director
APPA	Atmospheric Pollution Prevention Act
CPD	Continued Professional Development
DAEA	Department of Agriculture and Environmental Affairs
DEAT	Department of Environment, Agriculture and Tourism
DD	Deputy Director
DoH	Department of Health
DoL	Department of Labour
DWAF	Department of Water Affairs and Forestry
CEO	Chief Executive Officer
EIA	Environment Impact Assessment
ECA	Environment Conservation Act
EMI	Environment Management Inspectors
EHP	Environment Health Practitioner
GDACE	Gauteng Department Agriculture, Conservation and Environment
GTA	General Technological Assessment
HCW	Health Care Waste
HCWM	Health Care Waste Management

HCRW	Health Care Risk Waste
HCWO	Health Care Waste Officer
HCWF	Health Care Waste Forum
HCWFSA	Health Care Waste Forum Southern Africa
IWMSA	Institute of Waste Management Southern Africa
KZN	KwaZulu-Natal
MEC	Minister Executive Council
NWMSI	National Waste Management Strategy Implementation
NEMA	National Environment Management Act
NRF	National Recycling Forum
RoD	Record of Decision
SA	South Africa
SP	Service Provider
WB	Waste Bill

7. Attendance List

Title	First Name	Surname	Company	Designation	Attending as
Ms	Zandile	Mpungose	Pikitung	Executive : Legal	Delegate
Mr	Mzukisi	Tshem	Pikitung	Environmental Engineer	Delegate
Mrs	Ellenore	Melrose	SAPPI	Regional Health and Wellness Manager	Delegate
Mr	Zama	Zincume	Excellence Trends	Managing Director	Delegate
Mr	James	Fairbrass	The SA Incinerator Co.	Managing Director	Delegate
Mr	John	Marett	The SA Incinerator Co.	Director	Delegate
Mr	Isa	Iyortim	USAID	Social Worker	Delegate
Mr	Paul	Brits	Gauteng Dep of Health	Director	Delegate
Mrs	Kathie	Jansen	Gauteng Dep of Health	Assistant Director	Delegate
Mrs	Mpinane	Senekane	Gauteng Dep of Health	OHO	Delegate
Mrs	Balepi	Lebitsa	Gauteng Dep of Health	HCWO	Delegate
Mrs	Carol	Malahlana	Gauteng Dep of Health	COHO	Delegate
Mrs	Resoketswe	Mershile	Gauteng Dep of Health	AO	Delegate
Mrs	Sharon	Slabbert	Hospital Association of Southern Africa	Executive Officer	Delegate
Mrs	Lisa	Pearce	IDC	EHS Specialists	Delegate
Mr	Spencer	Malongete	Plastic Omnium	General Manager	Delegate
Mr	Nqam	Lunga Owen	Ihlumelo Waste Management	Manager	Delegate
Mrs	Nthateng	Mojaki	Ministry of Health - Lesotho	Head of Department	Delegate
Ms	Martha	Mosiane	JSI / MMIS	Project Coordinator	Delegate
Ms	Nompehlo	Daniel	JSI / MMIS	HCW Management Consultant	Delegate
Dr	Rose	Mulumba	JSI / MMIS	Country Director	Delegate
Mrs	Adri	Ludick	Wasteman Healthcare	Client Liason	Delegate
Mr	Olivier	Meyer	Wasteman Group	CEO	Delegate
Mrs	Heidi	Ford	Wasteman Healthcare	Regional Manager	Delegate
Ms	Karen	Adams	Wasteman Healthcare	Consultant	Delegate
Mrs	Tania	van der Linden	Wasteman Healthcare	Operations Controller Area SHEQ Manager (National SHE Designate)	Delegate
Mr	Gerrie	Schoeman	SA National Blood Services		Delegate
Mr	Dudley	Saunders	Buckley Flange & Steel	Managing Member	Delegate
Me	Natasha	Williams	Solid Waste Technologies		Delegate
Mr	Clayton	Adams	Solid Waste Technologies		Delegate
Mrs	Jayshree	Naidoo	Solid Waste Technologies		Delegate
Mrs	Agnetha	Arendse	Solid Waste Technologies		Delegate
Mrs	Tracy	du Preez	Roshcon	Waste Contracts Manager	Delegate
Ms	Thobile	Duma	Enviro Medical Waste Services t/a Siyandisa	Director	Delegate
Mr	Zithobile B	Nkosi	Sharp Move Trading (Pty) Ltd	Marketer	Delegate

Mr	Daniel	Moses	Isikhova	Director	Delegate
Mr	Ayanda	Dakela	Department of Health : Western Cape	Director	Delegate
Mrs	Babalwa	Fatyi	Myezo Environmental Management Services	Consultant	Delegate
Mr	Andrew	Malapile	Platmed Pty Ltd	AHSM	Delegate
Ms	Belinda	Langenhoven	Department of Environmental Affairs and Development Planning	Assistant Director : Waste Governance	Delegate
Mr	Eddie	Hanekom	Department of Environmental Affairs and Development Planning	Deputy Director : Waste Governance	Delegate
Dr	Tertuis	Bergh	Department of Agriculture	Deputy Director : Agriculture	Delegate
Ms	Zinhle	Mbili	Department of Agriculture and Environmental Affairs	Environmental Officer	Delegate
Mrs	Gcobisa	Feke	Department of Agriculture and Environmental Affairs	Environmental Officer	Delegate
Mrs	Tendeka	Kgosi	Department of Agriculture and Environmental Affairs	Senior Environmental Officer	Delegate
Mr	Bonginkosi	Robert	Department of Environmental Affairs Limpopo Provincial Department of Environment (LEDET)	Assistant Manager : Pollution & Waste Management	Delegate
Mr	Steve	Makuwa	Environment (LEDET)	Deputy Director	Delegate
Mr	Jacob	Seconna	Cape Peninsula University of Technology	Senior Lecturer	Delegate
Mrs	Keneiloe	Molapo	Millennium Challenge Account Health Project Implementation Unit - Lesotho	Medical Waste Management Specialist	Delegate
Mr	Philip	Phomane	Project Implementation Unit - Lesotho	Medical Waste Management Specialist	Delegate
Mr	Philip	Malandrinos	BCL Medical Waste	Partner	Delegate
Mr	Malefane	Lebena	Department of Correctional Services	Assistant Director - Environmental Hygiene	Delegate
Mrs	GJ	Magopa	Department of Correctional Services	Assistant Director - Environmental Hygiene	Delegate
Mrs	Lorna	Hill	Icando		Delegate
Mrs	Michele	Muller	Golder Associates Africa (Pty) Ltd.	Waste Specialist	Delegate
Mrs	Dimakatso	Mobote	Harmony Gold Mine (Ernest Oppenheimer Hospital)	Safety Officer	Delegate
Mrs	Mfazi	Ngcai	Harmony Gold Mine (Ernest Oppenheimer Hospital)	Infection Control	Delegate
Mr	Elias	Moiketsi	Harmony Gold Mine (Ernest Oppenheimer Hospital)	Assistant Nursing Manager	Delegate
Mr	Phillip	Kgosomore	Harmony Gold Mine (Ernest Oppenheimer Hospital)	ASNM	Delegate
Mr	Seragi	Moalosi	Harmony Gold Mine (Ernest Oppenheimer Hospital)	ASNM	Delegate
Mr	Pieter	Smuts	PASCO Waste & Environmental Consulting	CEO	Delegate
Mr	Aubrey	Chalmers	CliniX Waste Management	SHEQ Officer / Logistics Manager	Delegate
Mrs	Tsaletseng	Siimane	Ministry of Health and Social Welfare	Focal Person for healthcare Waste Management	Delegate
Mr	Trevor	Mphahlele	LEDET	Director	Delegate
Mr	Johan	Bothma	CPS	Executive Director	Delegate
Mr	Pieter	Kotzé	Medi-Clinic	General Manager: Property and Support Services	Delegate
Ms	Kaye	Fitchet	NHLS / NICD	Quality Assurance Manager	Delegate
Mrs	Arthiee	Manick	eThekweni Municipality	Senior Consultant	Delegate
Mrs	Angela	Gloster	eThekweni Municipality	Senior Consultant	Delegate
Mr	Allan	du Randt	Compass Waste	Operations Director	Delegate
Mr	Doug	Anderson	Compass Waste	Financial Director	Delegate
Mr	Phillip	Venter	Compass Waste	New Business Development Director	Delegate
Ms	Pam	Flanagan	Compass Waste	National Healthcare Manager	Delegate
Mr	Mike	Smith	Compass Waste	Microbiologist	Delegate
Mrs	Samantha	Immelman	Compass Waste	National Sales Director	Delegate
Mr	Graham	du Randt	Compass Waste	General Manager	Delegate
Mr	Nicholas	Hearn	Compass Waste	General Manager	Delegate

Mr	Jan	van der Berg	Compass Waste	Regional Manager - Gauteng	Delegate
Mr	Christiaan	Oosthuizen	Dr Ruth S Mompoti District Municipality (Vryburg)	Official	Delegate
Mr	Danie	Ferreira	Dr Ruth S Mompoti District Municipality (Vryburg)	Waste Manager	Delegate
Mr	Bernard	Luyiga	Kampala City Council (Uganda)	Councilor	Delegate
Mrs	Lucy M	Mpanja	Kampala City Council (Uganda)	Councilor	Delegate
Mr	Takan	David	Kampala City Council (Uganda)	Council Clerk	Delegate
Mrs	Ann	Oosthuizen	The Institute of Waste Management	Forum Secretary	Delegate
Mrs	Gail	Smit	The Institute of Waste Management	Office Manager	Delegate
Mrs	Makkie	van der Merwe	GAFA	Nursing Services Manager	Delegate
Mr	Istvan	Blasko	Howden Africa	Howden Projects General Manager	Delegate
Mr	Vischal	Rambridge	Howden Africa	Howden Projects Applications Engineer	Delegate
Mr	Kudzai	Nyangoni	Howden Africa	Howden Projects Managing Director	Delegate
Mrs	Sello	Itumelang	NHLS	Health and Safety Officer	Delegate
Mrs	Archie	Kambi	Amatole District Municipality (East London)	Assistant Director	Delegate
Mr	Errol	Staudé	Sterifant	Assistant	Delegate
Mr	Andrew G	Magashula	John Snow INC (Botswana)	Waste Management Advisor	Delegate
Mr	Jimmy T	Mmolawa	Government of Botswana		Delegate
Mr	Bronwen	Cornelissen	DTEC (Department of Tourism, Environment and Conservation)	Principal Environmental Officer	Delegate
Ms	Martha	Molokwane	DTEC (Department of Tourism, Environment and Conservation)	Senior Environmental Officer	Delegate
Ms	Lerato	Mokhoantle	DTEC (Department of Tourism, Environment and Conservation)	Principal Environmental Officer	Delegate
Mrs	Dineo	Nkosi	DTEC (Department of Tourism, Environment and Conservation)	Senior Environmental Officer	Delegate
Mrs	Agnes	Mekgwe	DTEC (Department of Tourism, Environment and Conservation)	Principal Environmental Officer	Delegate
Mr	Nir	Dishon	Istrodent (Pty) Ltd	Service Manager	Delegate
Mr	Khutjo	Maepa	Tshumisano Waste Management	Co-ordinator	Delegate
Mr	Moton	Hubbe	Eden District Municipality	District Waste Management Coordinator	Delegate
Mrs	Nomcebo	Mvelase	Groundwork	Health Care Waste Campaign Manager	Delegate
Mr	Clifford	Durrheim	Aids Medical Waste		Delegate
Mr	Simphiwe	Madondo	Dept of Health : Community Health Services	Manager	Delegate
Mr	Boithomelo	Xulu	Dept of Health : Community Health Services	SEHP	Delegate
Mrs	Bokang	Motshwane	OCSA	Regional Manager	Delegate
Mr	Neville	Smith	Pikitup (Pty) Ltd.	Executive Disposal	Delegate
Mr	Koos	Seodisa	Pikitup (Pty) Ltd.	Acting Manager : Incinerator	Delegate
Mr	Hendriko	Veldman	City Council of Tlokwe	Assistant Manager	Delegate
Mr	Lukas	Esterhuizen	City Council of Tlokwe	Superintendent	Delegate
Mrs	Michelle	Morgan	NHLS	OHS	Delegate
Mrs	Jean	Lindsey	WBSSA - Wildlife Society	Member	Delegate
Mrs	Princess	Pholadi	Edenvale Hospital	Professional Nurse	Delegate
Mrs	Christi	Kloppers	Provincial Dep of Agriculture : Western Cape	Acting Deputy Director : Food Safety	Delegate
Mr	A	Bhengo	DAEA	SEO	Delegate
Mr	Bheki	Ntshaintshali	DAEA	SEO	Delegate
Miss	Kedibone	Setsiba	Clayton House	OHS Particioner	Delegate
Ms	Stephani	Swarbrook	Mills & Otten Environmental Consultants		Delegate
Ms	Qondiswa	Mwandla	DAEA	Assistant Manager	Delegate
Mr	Erenst	Mpungose	DAEA	Senior Environmental Officer	Delegate

Mrs	Zamangwane	Dhlamini	DAEA	Senior Environmental Officer	Delegate
Mrs	Engie	Sefume	Steinmed	Consultant	Delegate
Mr	Ebrahim	Chopdat	Steinmed	Consultant	Delegate
Mrs	Patricia	Weaver		Health Care Waste Specialist	Delegate
Mr	Mxolisi	Lutumbo			Delegate
Dr	Freedom	Sibiya	Igagasi	CEO : Health Care Centre	Delegate
Mr	Skhumsozo	Mathe	Igagasi	Head of Operations & Logistics	Delegate
Mr	Hendrik	Kruger	Psychem Waste Solutions	Operations Manager	Delegate
Mrs	Suzette	Hartmann	Psychem Waste Solutions	Director	Delegate
Mrs	Sonja	Plekker			Delegate
Ms	Cecilia	Woker	SABS	Standards Writer	Delegate
Ms	Razja	Malick	SABS	Standards Writer	Delegate
Ms	Mpho	Sebole	DEAT	Assistant Manager : Thermal Waste Management	Delegate
Dr	Shuana	Costley	DEAT	Deputy Director : Thermal Waste Management	Delegate
Mr	Parbhu	Dilip	CWM	Director	Delegate
Mr	Segone	Joshua	CWM	Director	Delegate
Mr	Andries	Chaane	Tshepong TB Hospital	GA	Delegate
Mr	Dorcus	Maila	Tshepong TB Hospital	Supervisor Cleaner	Delegate
Miss	Johanna	Mogetsi	Johannesburg Hospital	Waste Officer	Delegate
Miss	Muriel	Mthimkulu	Johannesburg Hospital	Cleaning Supervisor	Delegate
Mr	Nelson	Sibiya	Johannesburg Hospital	Waste Collector	Delegate
Ms	Khululiwe	Kunene	DAEA	ADM	Delegate
Mr	Pine	Pienaar	Dynamic Enviro Clean	Sole Member	Exhibitor
Mrs	Kitty	Williamson	Dynamic Enviro Clean	Assistant	Exhibitor
Mrs	Pamela	Gordon	Choice Decisions 1184	Director	Exhibitor
Mrs	Martha	Mosiane	JSI / MMIS	Project Coordinator	Exhibitor
Mrs	Heidi	Ford	Wasteman Healthcare	Regional Manager	Exhibitor
Mrs	Julie	Venter	Compass Waste	Marketing Manager	Exhibitor
Mrs	Sonia	Simon	Buckley Flange & Steel	Marketing Manager	Exhibitor
			Solid Waste Technologies		Exhibitor
Mrs	Alicia	Fourie	Enviro Medical Waste Services t/a Siyandisa		Exhibitor
Mr	Chris	Porter	Enviro Medical Waste Services t/a Siyandisa	Director	Exhibitor
Dr	Zola	Mbovani	Sharp Move t/a Premier Waste Operations	CEO	Exhibitor
Mrs	Kelly	Powell	Daniels Sharpsmart Compass	Executive Assistant	Exhibitor
Mr	Mariska	Pieterse	Howden Africa	TBA	Exhibitor
Mr	Nkululeko	Makhunga	Tshumisano Waste Management	General Manager	Exhibitor
Mrs	Yvette	Retief	Psychem Waste Solutions	Sales Representative	Exhibitor
Mr	Sipho	Vumase	Manguzi Hospital	CEO & D.Tech Candidate	Speaker
Mr	Frank-Michael	Phieler	Sterifant	Director / President	Speaker
Mrs	Janet	Magner	Chairperson	The Health Care Waste Forum SA	Speaker
Mrs	June	Lombard	Icando	Managing Member	Speaker
Mr	Terry	Grimmond	The Daniels Corporation	Medical Microbiologist & Clinical Director	Speaker
Mrs	Jackie	Witthuhn	Talking Health	Managing Member	Speaker
Mr	Maruis	Greyling	Department of Health : Northwest Province	Chief Environmental Health Practitioner	Speaker
Mr	Brian	Delcarme	Cape Peninsula University of Technology	Lecturer	Speaker

Mrs	Jenny	Hall	Environmental Council CC	Managing Member	Speaker
Mr	Edgar	Adams	Solid Waste Technologies	Managing Director	Sponsor
Mr	Ludwig	Hartmann	Psychem Waste Solutions	General Manager	Sponsor
Mr	Ian	Du Randt	Compass Waste	Managing Director	Sponsor
Mr	Pit	Suessmann	Sterifant	Principal	Sponsor
Mr	Ludwig	Hartmann	Psychem Waste Solutions	General Manager	Sponsor
Mr	Colin	De Bruyn	Grundle Geosynthetics	Technical Sales Director	Visitor
Mr	Henco	Werdlich	Grundle Geosynthetics	Operations Director	Visitor
Mr	Wladyslaw	Cisak	Kemtek	Account Manager	Visitor
Mr	Nicholas	Hean	PailPac (PTY) Ltd	Account Manager	Visitor