

WEBSITE AND TECHNICAL REVIEW LAUNCHED ON THE COMPOSTING OF MUNICIPAL SOLID WASTE

Paul Bardos. r³ environmental technology limited, www.r3environmental.com

A web site and technical review, which bring together the technical information available about the composting of mechanically segregated fractions of municipal solid waste (MSW) have been launched.

The project, carried out by Dr Paul Bardos and his team of r3 Environmental Technology Limited with AEA Technology was made possible with funding from SITA Environmental Trust, through the Landfill Tax Credit Scheme.

The web site provides access to a bibliography of 1,600 references and a detailed technical review. The site can be accessed at www.compostinfo.info

Compostinfo is designed to be fully searchable, and its visitors can look at:
technical overview information
bibliography
summaries of bibliography entries.

The site can be read like a book through a list of sections, each of which includes a full reference list, and list of supplementary documents. The site bibliography can also be searched for specific references, subjects, authors etc.

Composting mechanically extracted fractions of MSW is a subject that draws a range of points of view. While the review on *Compostinfo* strives to be impartial and objective, the authors realise that other experts may not agree with all of its findings.

So if you don't agree... **add a comment!**

The web site is fully interactive and its users can propose additional references, and can make comments. These comments can be linked to references, or indeed to comments made by others. As the site is only just released, it is virgin territory, so why not be the first to add a comment or two, or add a reference. One proviso – no anonymous comments are accepted!

You can also download the full technical review or its executive summary. The full bibliography is not downloadable.

Here is what the web site looks like:...

The Home Page

The screenshot shows the homepage of the SITA Environmental Trust MBT Composting Bibliography. The browser window is titled "The SET Demo: Introduction - Microsoft Internet Explorer". The address bar shows "http://www.compostinfo.info/index.asp". The page features a green header with the title "SITA Environmental Trust MBT Composting Bibliography". A search bar is located below the header. On the left, there is a green sidebar with a list of navigation links: Home Page, About SITA Environmental Trust, Acknowledgements, Introduction / About the Project, Composting: Past and Present, Feedstocks and Composition, Sampling and Analysis, Biology of Composting, Pre-processing Methods, Composting Techniques, Refining and Packaging, Health and Safety, Emissions and Emissions Control, and Product Quality and Environmental Impacts. The main content area is titled "Composting Mixed Waste / MBT Composting" and contains three paragraphs of text. The first paragraph discusses the resurgence of interest in composting of Municipal Solid Waste (MSW). The second paragraph discusses source segregation and the use of mechanical separation processes. The third paragraph discusses the use of mechanical and biological treatments. A callout box on the right side of the page contains the text "Click here to view a topic or sub topic" with an arrow pointing to the "Composting Mixed Waste / MBT Composting" title.

The SET Demo: Introduction - Microsoft Internet Explorer

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Address http://www.compostinfo.info/index.asp Go Links

SITA Environmental Trust MBT Composting Bibliography

Search >>

Composting Mixed Waste / MBT Composting

This complete review can be downloaded as a PDF (1,625 kB), [Click here to download full review.](#)

Over recent years there has been a resurgence of interest in composting of Municipal Solid Waste (MSW). A large amount of source segregated wastes are now composted across Europe, and the compost is used routinely by many users from domestic users to commercial users.

Source segregation leaves behind residual organic materials. Composting combined with mechanical separation processes may provide a means of recovering lower grade composts and other recycles both from the residual wastes, and from general waste collections, where for economic, social or other reasons composting of source segregated materials is not carried out. This combination of mechanical and biological treatments has come to be known as "MBT", and this technique is seeing an increasing number of applications across Europe.

However, while "MBT" is "new", mixed waste composting is not, and a large amount of information has been collected about the performance of composting, sampling and separation systems for mixed waste composting. It appears that not all of this information is being exploited by MBT developers, who may therefore be at risk of repeating research that has already been done, or perhaps even repeating mistakes from the past, or not carrying out adequate sampling and analysis.

SITA Environmental Trust have supported a project, carried out by r³ environmental technology limited and AEA Technology PLC, to collate the large body of existing, and apparently forgotten, information about composting mechanically separated fractions of MSW including sampling and sample preparation issues; and then to present this information in a form that is easily accessible to the UK waste management industry, environmental consultants and researchers.

start Document3 - ... Turnpike Conn... The SET Demo... Inbox MBT Event Del... Adobe Acrobat... EN 16:57

Click here to view a topic or sub topic

This screenshot is similar to the first one, but with the "Pre-processing Methods" sub-topics menu open. The menu lists: Separation Technologies, Size Reduction, Process Integration, Other Conditioning Methods, and Materials Handling Issues. A callout box on the right side of the page contains the text "Sub topics example" with an arrow pointing to the "Size Reduction" item in the menu.

The SET Demo: Introduction - Microsoft Internet Explorer

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Sub topics example

Here is a topic page, which shows the beginning of the text

Click here to see the rest

Click here for the references, and below for the full bibliography and readers comments and references

The full section shows in a pop out

Searching

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SET

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Address <http://www.compostinfo.info/search.asp?page=1&SearchText=dust&search=Search+%3E%3E>

SITA Environmental Trust MBT Composting Bibliography

Search Search >>

Search Results for: dust

Number of Records=205

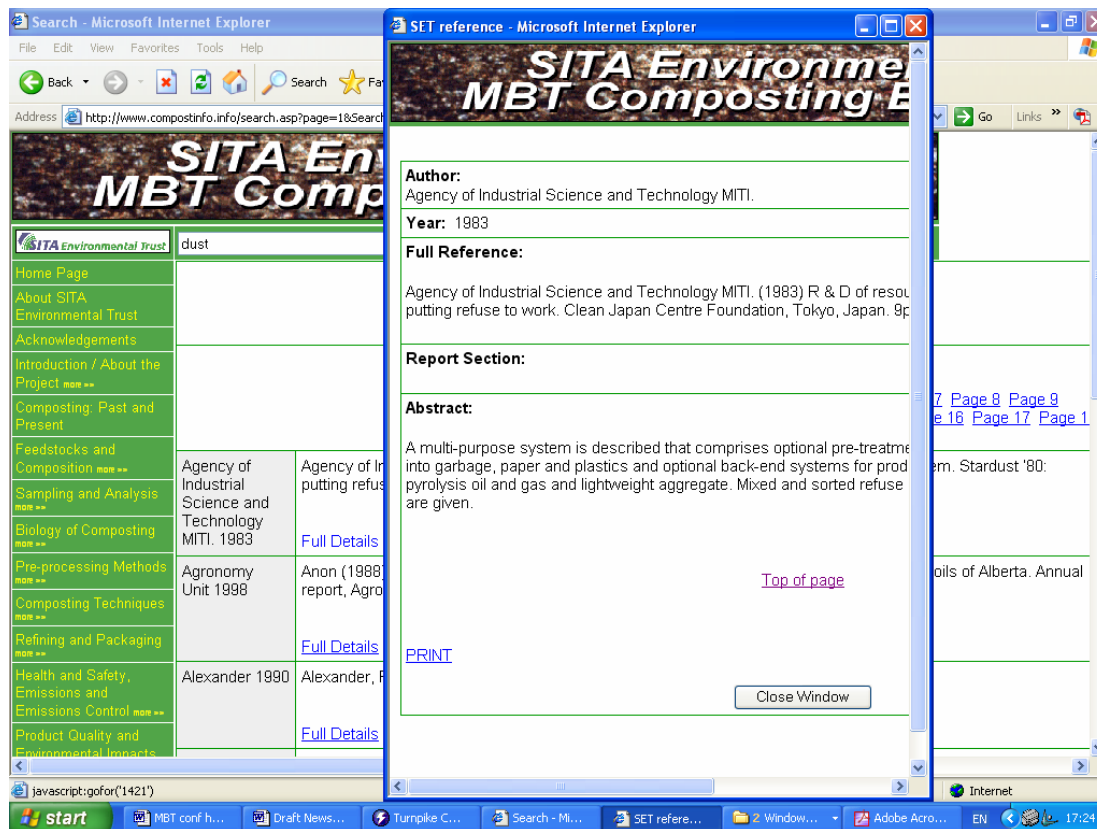
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Agency of Industrial Science and Technology MITI. 1983	Agency of Industrial Science and Technology MITI. (1983) R & D of resource recovery system. Stardust '80. putting refuse to work. Clean Japan Centre Foundation, Tokyo, Japan. 9pp.	Full Details Linked Comments (0) Make a comment
Agronomy Unit 1998	Anon (1998) The Effect of MSW Compost on Wheat, Barley and Canola in Gray Luvisolic Soils of Alberta. Annual report, Agronomy Unit, June 1998.	Full Details Linked Comments (0) Make a comment
Alexander 1990	Alexander, R. (1990) Expanding compost markets. BioCycle, 31(8), 54-59.	Full Details Linked Comments (0) Make a comment

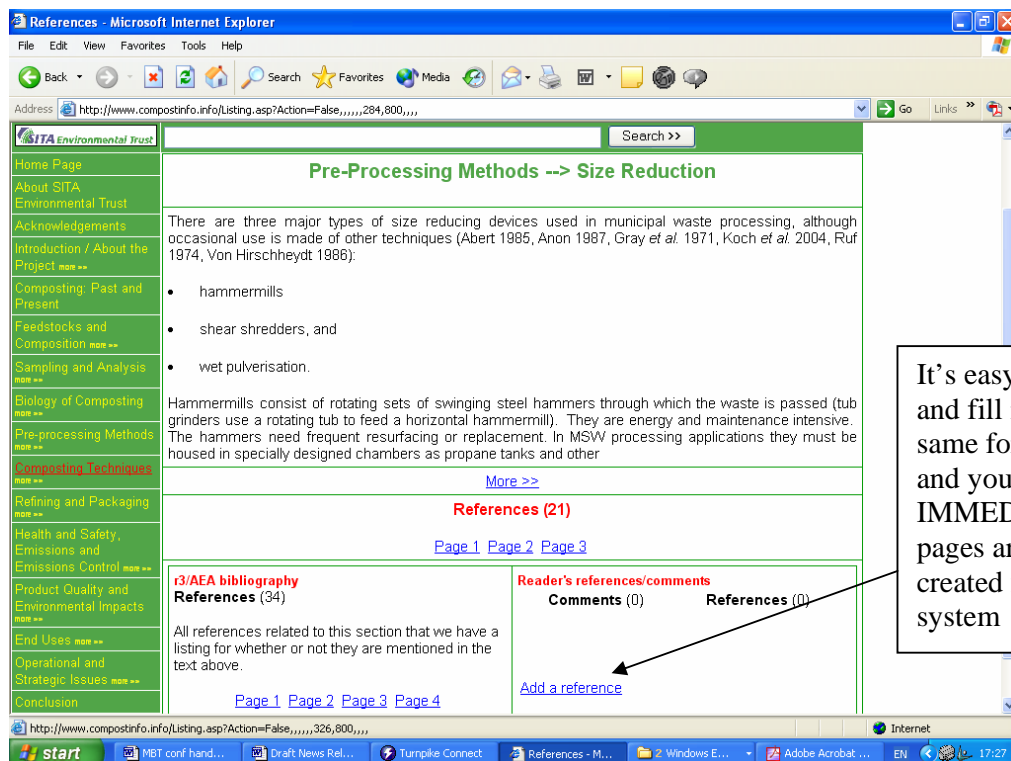
Done

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Full details of a record show on a pop up, e.g. this 1983 example related to “dust”



Adding a reference



Fill in the form

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First Author: *
Goldstein

Year: * (e.g. 2001)
2005

Full reference: *
e.g. Aarsrud, W. (1980) Production of fuel from household refuse and forest waste using the Brini system. *Energy Technol. (Natl. Swed. Board Tech. Dev.)*, 4, 14-16.
Goldstein, N. and Diaz, L.F. (2005) Size reduction equipment overview. *BioCycle* 46 (1) 48-51

Weblink (if available):
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Abstract: *
Comprehensive review of shredding equipment for compost production

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Confirm Details

First Author: Goldstein

Year: 2005

Full reference: Goldstein, N. and Diaz, L.F. (2005) Size reduction equipment overview. *BioCycle* 46 (1) 48-51

Web link (if available):

Abstract: Comprehensive review of shredding equipment for compost production

Categories:
Pre-Processing Methods --> Size Reduction

Inputs:
mechanically segregated msw
source segregated waste

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Goldstein 2005	Goldstein, N. and Diaz, L.F. (2005) Size reduction equipment overview. BioCycle 46 (1) 48-51
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Submitted by: Prof Paul Bardos r3 environmental technology ltd 17/03/2005 17:36:43
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Note all references are filtered so that only those related to Pre-Processing Methods – Size Reduction Show for this topic