

Bavarian research & innovation



Bavarian Research Cooperation Waste Management and Recycling Research

MANAGEMENT OF WASTE STREAMS

For 12 years now, BayFORREST (Bayerischer Forschungsverbund Abfallforschung und Reststoffverwertung) has been developing scientific principles for waste management: concepts and planning, production and products, recycling and disposal.

BayFORREST's many years of experience as the oldest Bavarian Research Cooperation also enables it to make direct use of the results from more than 100 research projects.

A current example is the research into "material stream management in buildings". Ecologically sound methods are being demonstrated of how buildings can be planned, built, operated and in some cases also converted. The aim of the work is to design buildings with the flexibility required to meet changing usage requirements, to conserve resources, to select non-polluting building materials and to minimise the quantities of residual building materials which remain for final disposal.

Another aspect of BayFORREST's work is that of "Integrated product policies, taking mobile telephony as an example". Products are examined and optimised over their entire life cycle with regard to their effects on the



environment and on people. This topic places particular emphasis on minimising the consumption of raw materials, energy demand, and emissions and immissions. At the same time, social and economic aspects over the entire life-cycle of a product, from conception and design through to disposal, also feature in the considerations.

Equally extensive projects are planned for the field of "assessment systems". BayFORREST expects to put these out to tender in 2002.

Spokesperson:

Prof. Dr. Dr. h.c. Peter A. Wilderer, TU Munich

Managing Director:

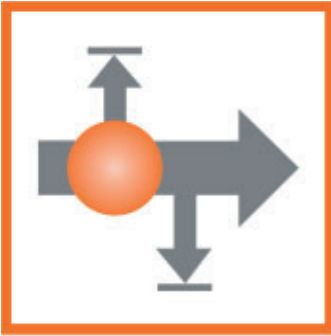
Dr. Manuela C. Wimmer
BayFORREST
TU Munich
Am Coulombwall, 85748 Garching, Germany
Phone +49 (0) 89 2 89-137 03
Fax +49 (0) 89 2 89-137 18
E-Mail bayforrest@bv.tum.de
Internet www.abayfor.de/bayforrest

Funded by the Bavarian State Ministry of State Development and Environmental Affairs and the Bavarian State Ministry of Science, Research and Art.

RESEARCH TOPICS:

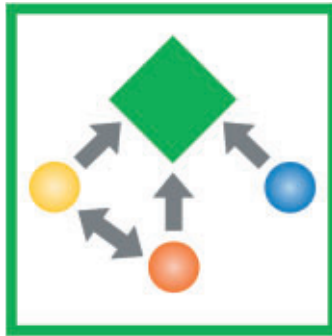
Product and product-related environmental protection

This area considers the effects on people and the environment of the entire manufacturing cycle through to recycling and disposal.



Industrial and social requirements of sustainable waste management

Important aspects of this field of work include public participation, cooperation between government and industry, regional networking and the use of new financing models and marketing strategies.



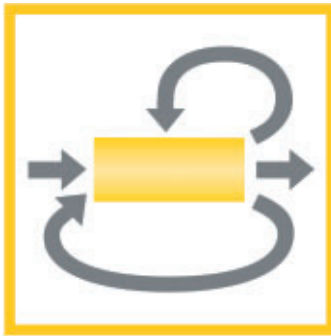
Landfill sites, contaminated industrial sites, ground recycling

It is the aim of this project to return landfill sites to nature and to make decontaminated sites usable again.



Material stream management

The aim of these projects is the reduction of material throughput and the replacement of ecologically harmful materials.



Environmental indicators, sensors and monitoring

This field of work is intended to develop all the relevant factors that will allow conclusions to be drawn regarding the quality of the environment and the harmful effects to which it is exposed. This also includes powerful analytical tools and optimisation of existing recording systems.



Knowledge and technology transfer

Exploiting the full range of modern means of communication, BayFORREST is making the results obtained from all these research areas available to the scientific community.

