

Results in the Use and Practise of Composting Toilets in Multi Story Houses in Bielefeld and Rostock, Germany

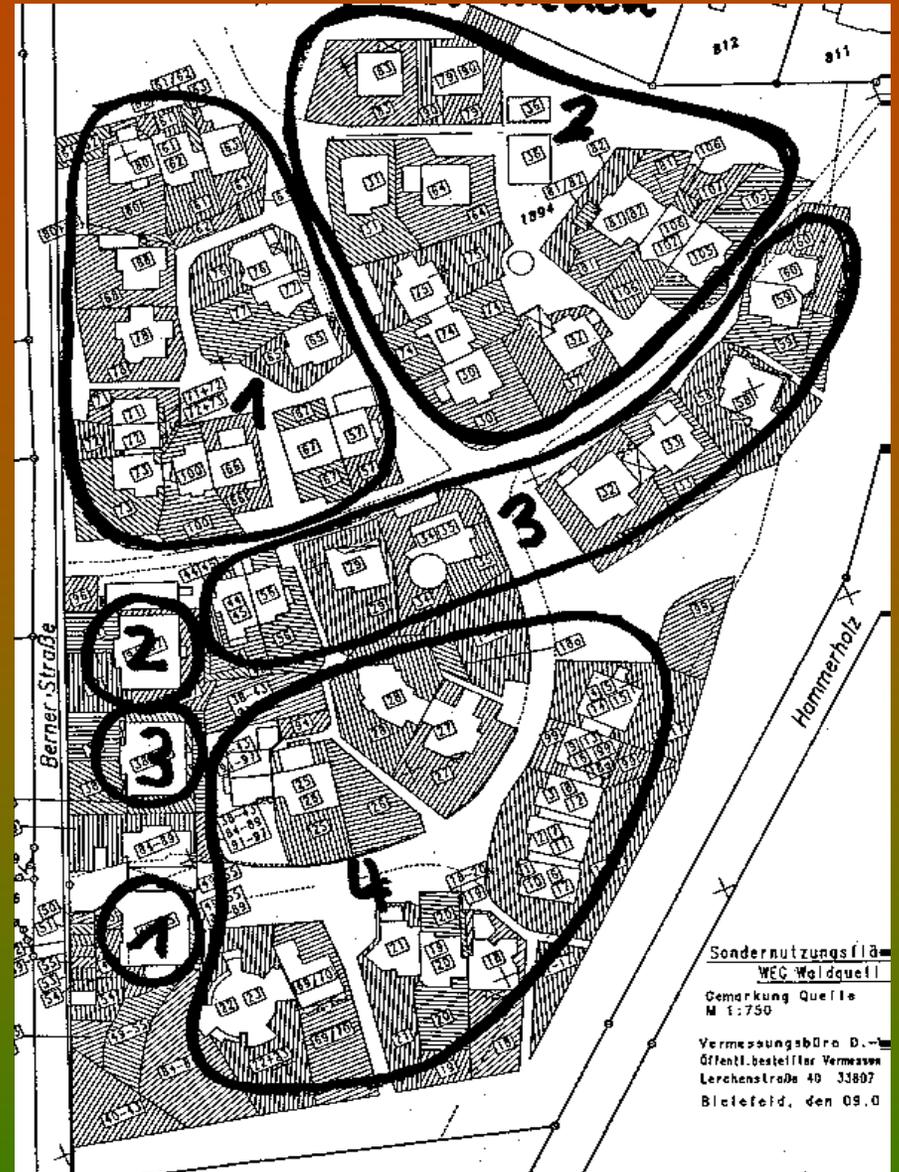
Dipl.-Ing. Wolfgang Berger
Berger Biotechnik GmbH, Hamburg



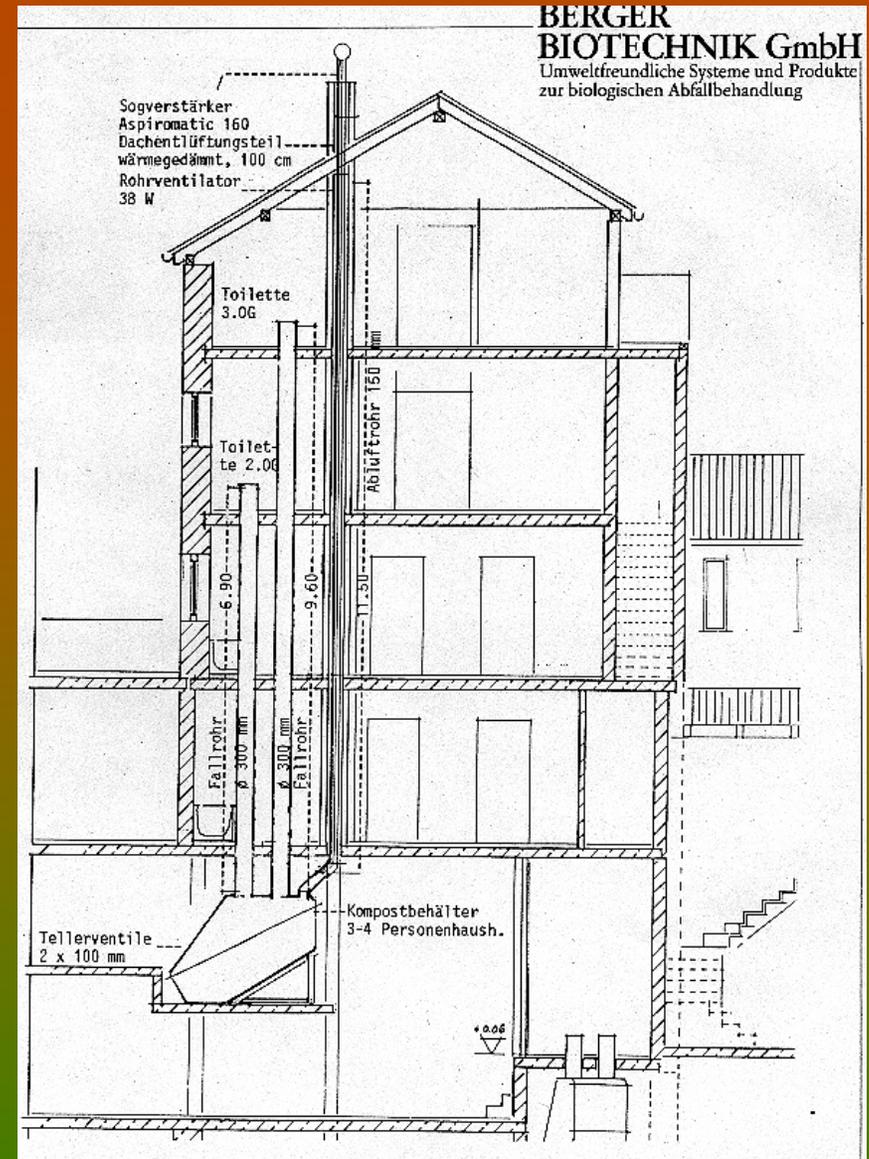
Ecological settlement Hamburg-Allermöhe (started in 1986)
Berger Biotechnik GmbH, Hamburg



Ecological settlement with seminar house and Kindergarden
Kiel-Hassee (since 1992)
Berger Biotechnik GmbH, Hamburg



Ecological Settlement Bielefeld-Waldquelle: ~ 270 inhabitants,
1 Kindergarden, ~ 100 flats, 70 composting containers
Berger Biotechnik GmbH, Hamburg



4-story rented flats housing with Kindergarden, Bielefeld
 Berger Biotechnik GmbH, Hamburg



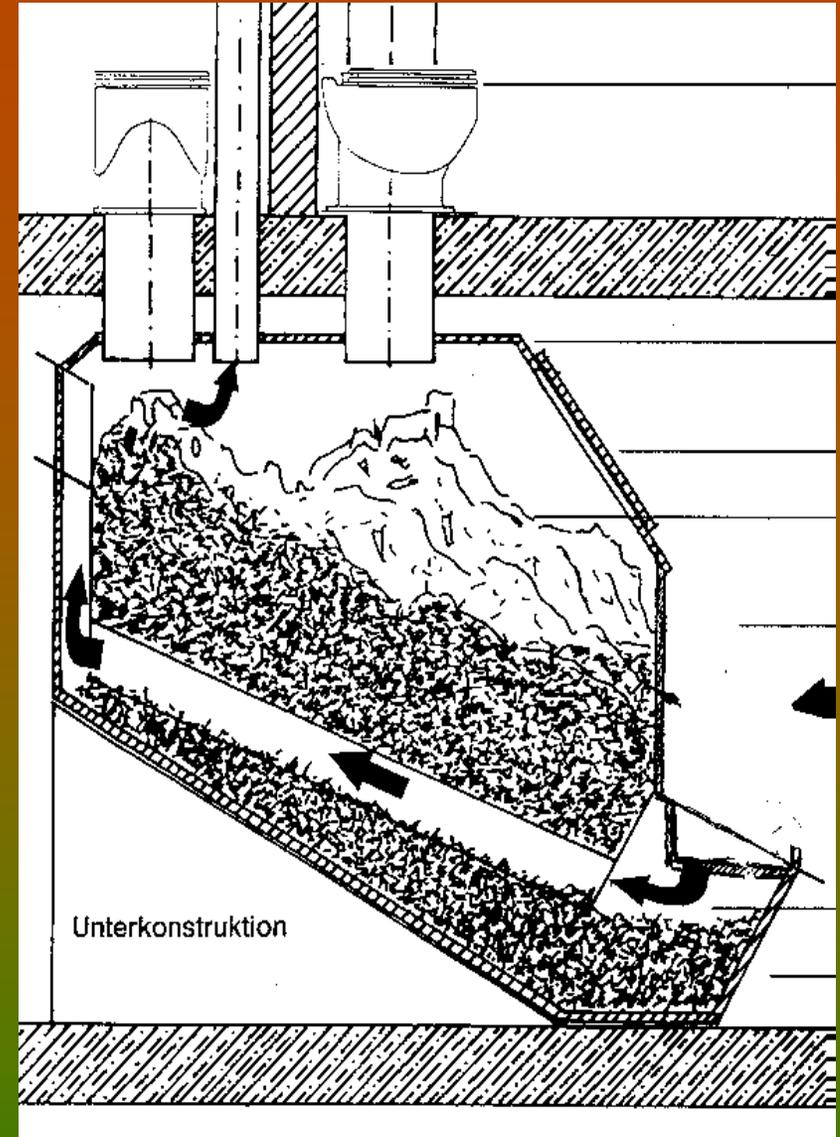
Private housing, 2 to 3 stories, in Bielefeld
Berger Biotechnik GmbH, Hamburg



Private flat housing, 4 story buildings, in Bielefeld-Waldquelle
Berger Biotechnik GmbH, Hamburg



TerraNova ceramic toilet with sealed cover and removable insert
Berger Biotechnik GmbH, Hamburg



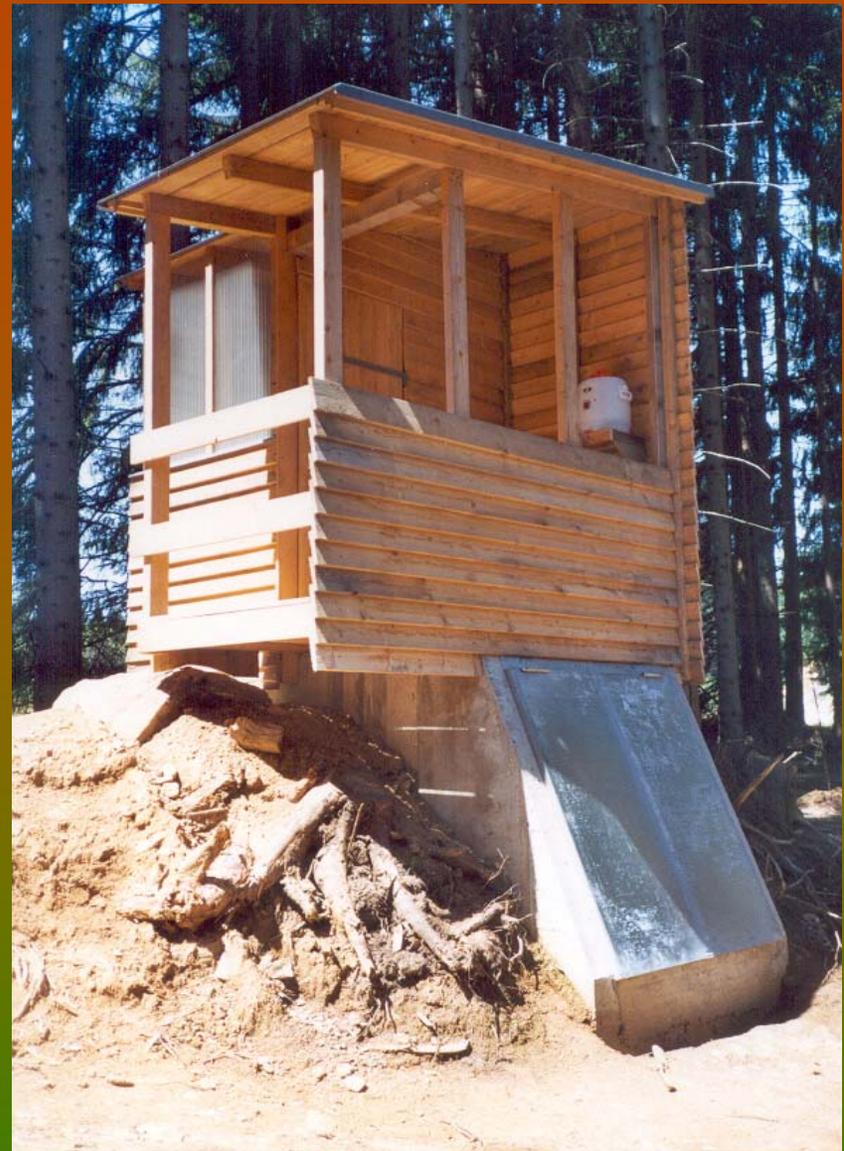
TerraNova composting container 2002 with platform/cover for easier operating and maintaining (also for older containers)
Berger Biotechnik GmbH, Hamburg



Solid – fluid separation for easier taken out and utilization
Berger Biotechnik GmbH, Hamburg



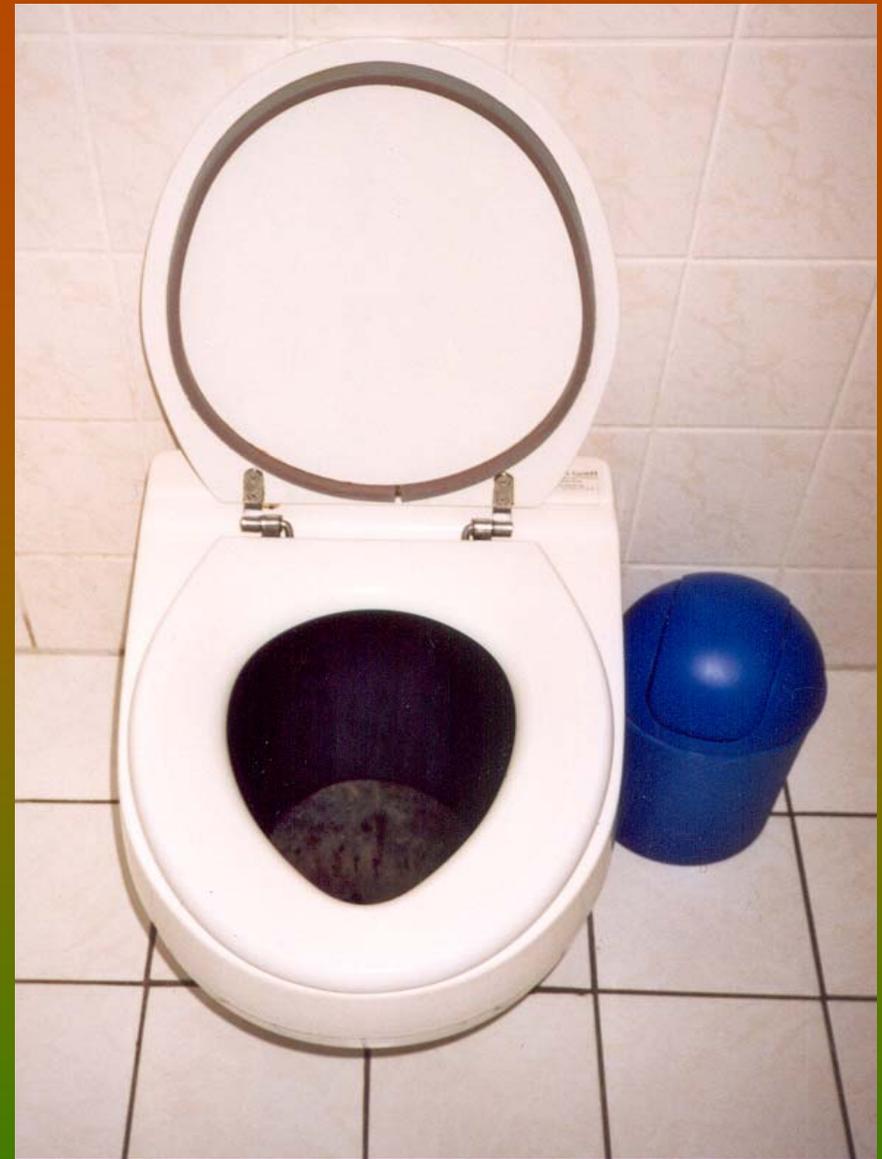
Earth from composting container for private use in the garden
Berger Biotechnik GmbH, Hamburg



Public toilets Brunnsteinhütte, Mittenwald (since 1999) and
Zwieselerhaus, Bavarian Forest (since 2002)
Berger Biotechnik GmbH, Hamburg



Ökohaus Rostock: shops, offices, seminar house and restaurant
Berger Biotechnik GmbH, Hamburg



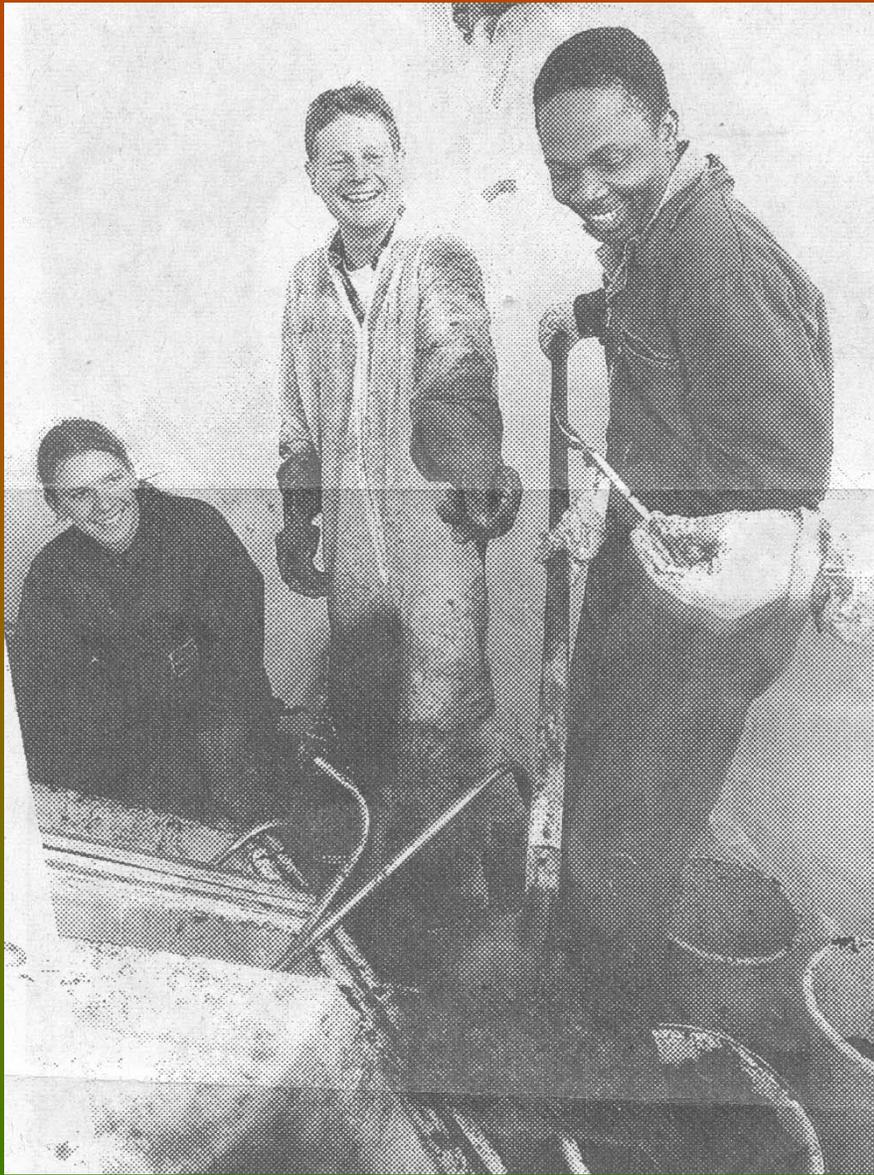
Public toilet rooms, Ökohaus Rostock
Berger Biotechnik GmbH, Hamburg



Composting containers and Aquatron separator for flush toilet
Berger Biotechnik GmbH, Hamburg



Toilet waste mixed with structural and absorbing material
Berger Biotechnik GmbH, Hamburg



Compost taken out (photo from Rostock newspaper), disposal for further testing
Berger Biotechnik GmbH, Hamburg

Conclusions:

- ✘ The amount of effort for maintaining the system has to be as low and easy as possible;
- ✘ The first two years, inspections, consulting and practical training should be offered, when buying the system;
- ✘ The customer should have the possibility to put maintenance and the removing of compost under contract;
- ✘ Projects like the Bielefeld settlement are predestinated to find out research data for improvement and development;
- ✘ Acceptance will grow, if function and quality criteria are proved and tested.

Berger Biotechnik GmbH, Hamburg



You must not throw away your old flush toilet !
Berger Biotechnik GmbH, Hamburg