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INSTITUT FÜR WASSERGÜTE,  
RESSOURCENMANAGEMENT  
UND ABFALLWIRTSCHAFT  
INSTITUTE FOR WATER QUALITY,  
RESOURCES AND  
WASTE MANAGEMENT



## **Waste and Resource Management in Austria Austrian / Czech Student Excursion**

Project number 44p17

### **(Report about the activities in 2006)**

#### Czech partner:

Department of Drainage Irrigation and Landscape Engineering  
Faculty of Civil Engineering - CTU in Prague  
Martin Dočkal Ing., Ph.D.

#### Austrian partner:

Institute for Water Quality, Resources and Waste Management  
Vienna University of Technology  
Dipl. Ing. Johann Fellner, Dr. techn.

This project represented a further step to the establishment of cooperation between CTU in Prague and TU Vienna. Both partner departments (Department of Irrigation, Drainage and Landscape Engineering - CTU Prague, and Institute for Water Quality, Resources and Waste Management - Vienna University of Technology) can refer to long-term experience in the field of waste and resources management.

The realized project enabled a joint excursion of Czech and Austrian students in Austria. The participants were visiting different waste management plants in Vienna and the surrounding province Lower Austria and got additionally a general overview of the waste management in Austria. The site visits and also the lectures gave a good insight into the current situation of waste management in Austria.

Beside the official program of the excursion participants of both countries used the possibility for socializing during joint evening activities.

Summarizing the project, it can be stated that the objectives of the excursion (insight into the waste and resource management practice of Austria, discussion of Austrian standards in waste management, Introduction to the method of Material Flow Analysis, as well as knotting ties between students and teachers of both countries) were fully reached.

### **Brief summary of the excursion 2006 in Vienna**

**10<sup>th</sup> of May 2006**

Prague – Vienna by train in the morning



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## Seminar at the Vienna University of Technology

Overview of waste management in the Austria:

- Categories and quantity of waste production
- Municipal solid waste production by region
- Composition of waste
- Legislation

Waste treatment technologies in Austria:

- Waste Incineration
  - Flue gas cleaning system
  - Energy recovery
  - Legislation
- Composting
  - Use of final products
  - Problems associated
  - Technologies
- Mechanical biological pre-treatment
  - Mechanical splitting technologies
  - Biological treatment
  - Off-gas
- Landfilling
  - Construction (site investigation, lining, ..)
  - Landfill gas
  - Leachate
  - Landfill operation
  - Landfill closure
  - Aftercare
- Recycling technologies

Introduction into the field of resource management:

- Material Flow Analysis

### 11<sup>th</sup> of May 2006

#### Sight visits:

Metal recycling plant METRA (Amstetten, Lower Austria)

Mechanical-biological pre-treatment plant (St. Pölten, Lower Austria)

Waste Incineration Plant (Dürnrrohr, Lower Austria)

### 12<sup>th</sup> of May 2006

#### Sight visits:

MA 48 (Waste Management Agency of Vienna)

Rinterzelt (Sorting plant for different types of waste)

Landfill “Rautenweg”



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**Seminar** at the Vienna University of Technology

- Summary and Discussion

**13<sup>th</sup> of May 2005**

Vienna – Prague by train

Altogether 15 students and 2 teachers (Ing. Martin Dočkal, Ph.D. and Ing. Tomáš Fajfr) from the Technical University of Prague participated in the excursion “Waste and Resource Management in Austria” over a period of 4 days. Additionally around 20 students of the Vienna University of Technology joined the excursion.

The participants from the Technical University of Prague were accommodated in the hostel “Happy Hostel” in 1060 Vienna.

Vienna, 1<sup>st</sup> of August, 2006