



*International Compost Seminar 14<sup>th</sup>-18<sup>th</sup> of October 2019*

Compost  
**SYSTEMS**

**Controlled Microbial Composting &  
Humus Management**

- 09:00 Introduction of speakers and participants  
Basic introduction of the subject "Compost & Soil"
- What makes composting so important today?
  - Perspective of soil fertility, human health, quality of food
  - Environment and climate impacts
- 12:00 Lunch
- 13:00 Sightseeing walk through Wels
- 13:30 Overview of today's composting technologies
- Indoor solutions (Tunnels, boxes)
  - Outdoor solutions, small windrows, big windrows, table piles
  - Agitated systems, static systems
  - Membrane composting
  - Advantages / disadvantages
- 18:00 End

- 09:00 Raw material evaluation  
Handling, combining, treating, storing the feedstock in the correct way
- 12:00 Lunch
- 13:00 Drive to composting plant (20 min)
- 13:30 Practical session on composting plant
- Basic evaluation of raw materials
  - Moisture management
  - Building of compost windrows
- 15:00 Return to seminar room
- 15:30 Mass balance and moisture balance for compost and MBT plants
- Evaluation and modeling
  - Digestion loss, moisture loss
  - Calculation aspects and critical factors
  - Energy balance
- 18:00 End

- 09:00 Microbial activity in soil and compost  
Relevance of microbial life for soil fertility and Human life as the top of the food chain
- 12:00 Lunch
- 13:00 Drive to composting plant
- 13:30 Turning of the compost, testing procedures in practice, moisture control, irrigation
- 14:30 Return to seminar room
- 15:00 Relevance of biological treatment technologies
- Composting as production method of compost
  - Biological drying
  - Biological stabilization
  - Production of RDF fuel by drying
- Emission trade schemes, CO<sub>2</sub> certificates for compost as an additional income stream for compost plants and farms (Emission Trade Scheme by UNFCCC, certification and program)
- Carbon sequestration in soil
- 18:00 Watch HUMUS the movie (optional for participants, that have not seen the movie yet)

- 09:00 Use of Compost
- Quality criteria
  - Agricultural application, combination with green manure, correct integration to farming method
  - Use compost as tea, application as field spray, benefits
  - Soil re-cultivation with compost
  - Production of instant soils, growing media, mixes
  - Beneficial additives
- 12:00 Lunch
- 13:00 Drive to composting plant
- 13:30 Testing routine for compost, checkup on fresh built pile
- 14:30 Return to seminar room
- 15:00 Methods of emission reduction
- Reduction of odor emissions
  - Reduction of greenhouse gas emissions (GHG)
  - Biofilter technology, functions, and limits
  - RTO (Regenerative thermal oxidation)
  - Membrane composting
- 18:00 End
- 19.30 Evening program

- 09:00 Testing and analysis
- Laboratory testing of compost with the CMC testing kit
  - Moisture, pH, Humus, NH<sub>4</sub>, NO<sub>2</sub>, NO<sub>3</sub>...
  - Nutrient cycle and development in biological cycle
- 12:00 Lunch
- 13:00 Introduction of various technological solutions of Compost Systems
- Windrow composting CMC
  - Windrow composting with larger windrows
  - Aerated open composting with the COMPOnent system
  - Enclosed composting with windrows
  - Tunnel composting with the COMPObox system
  - Hybrid variations
- 16:00 End

**Seminar Language:** English

**Location:** Compost Systems, Maria-Theresia-Straße 9, 4600 Wels, Austria

**Hotel Recommendations in Wels:**

Hotel Kremsmünstererhof, Stadtplatz 62, +43 7242 466 230

Hotel Ploberger, Kaiser-Josef-Platz 21, +43 7242 629 41

Hotel Amedia, Adlerstraße 1, +43 7242 220 330

**Costs:** € 680,-

**Limited Number of Participants!**

**Speakers:**



**Aurel Lübke**



**Bernhard Gamerith**



Maria-Theresia-Straße 9, 4600 Wels, info@compost-systems.com,  
www-compost-systems.com, Phone:+43/7242/350 777-0, Fax -20



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