



*International Compost Seminar 15<sup>th</sup>-19<sup>th</sup> of October 2018*

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 <ul style="list-style-type: none"> <li>- Composting as production method of compost</li> <li>- Biological drying</li> <li>- Biological stabilization</li> <li>- Production of RDF fuel by drying</li> </ul> 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 <ul style="list-style-type: none"> <li>- Quality criteria</li> <li>- Agricultural application, combination with green manure, correct integration to farming method</li> <li>- Use compost as tea, application as field spray, benefits</li> <li>- Soil re-cultivation with compost</li> <li>- Production of instant soils, growing media, mixes</li> <li>- Beneficial additives</li> </ul>
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 <ul style="list-style-type: none"> <li>- Reduction of odor emissions</li> <li>- Reduction of greenhouse gas emissions (GHG)</li> <li>- Biofilter technology, functions, and limits</li> <li>- RTO (Regenerative thermal oxidation)</li> <li>- Membrane composting</li> </ul>
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:** € 650,-

**Limited Number of Participants!**

**Speakers:**



**Aurel Lübke**



**Bernhard Gamerith**



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