



# International Compost Seminar 2022/2023

Controlled Microbial Composting &  
Humus Management



Compost  
Systems



# General information

Location:

Compost Systems GmbH, Maria-Theresia-Straße 9, 4600 Wels, Austria

from 10<sup>th</sup> to 14<sup>th</sup> October 2022  
& from 9<sup>th</sup> to 13<sup>th</sup> October 2023

Cost per person: € 850.-

Seminar language: English

Limited number of participants!

# Speakers



Aurel Lübke  
Managing Director



Ing. Dipl.-Ing. Bernhard Gamerith  
Chief Technology Officer

# Day 1



- 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
- Compost facility process analysis
- 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

# Day 2



- 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  
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 recultivation with compost
  - Production of instant soils, growing media, mixes
  - Beneficial additives
- 12:00      Lunch
- 13:00      Drive to composting plant
- 13:30      Practical session on composting plant
- Basic evaluation of raw materials
  - Moisture management
  - Building of compost windrows

# Day 2 (continued)



- 15:00 Return to seminar room
- 15:30 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
- Anaerobic digestion
- 18:00 End

# Day 3



- 09:00      Raw material evaluation  
Handling, combining, treating, storing the feedstock in the correct way
- 12:00      Lunch
- 13:30      Mass, energy and moisture balance for compost and MBT plants
- Evaluation and modeling
  - Digestion loss, moisture loss
  - Calculation aspects and critical factors
  - Energy balance
- Design of a plant
- 18:00      Watch „HUMUS - The movie“  
(optional for participants, that have not seen the movie yet)

# Day 4



- 09:00 Emissions, their treatment and prevention  
Biofilter  
Regenerative Thermal Oxidation  
Membrane composting
- 12:00 Lunch
- 13:00 Drive to composting plant
- 13:30 Turning of the compost, testing routine and procedures for compost, moisture control, irrigation, checkup on fresh built pile
- 14:30 Return to seminar room
- 15:00 Introduction of various technological solutions of Compost Systems
- 18:00 End



# Day 5



09:00	Testing and analysis <ul style="list-style-type: none"><li>• Laboratory testing of compost with the CMC testing kit</li><li>• Moisture, pH, Humus, NH<sub>4</sub>, NO<sub>2</sub>, NO<sub>3</sub> ...</li><li>• Nutrient cycle and development in biological cycle</li></ul>
12:00	Lunch
13:00	End

The schedule is subject to modification. The seminar will be held compliant to the current COVID-19 regulations.



# Hotel recommendations



Hotel ibis  
Maria-Theresia-Straße 44  
T +43 7242 930 440



Best Western Plaza Hotel  
Adlerstraße 1  
T +43 7242 220 330



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



Kremsmünstererhof  
Stadtplatz 62  
T +43 7242 46623



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## Registration form

Please pick a date!

10<sup>th</sup> to 14<sup>th</sup> October 2022

Registration deadline is 30<sup>th</sup> September 2022

9<sup>th</sup> to 13<sup>th</sup> October 2023

Registration deadline is 30<sup>th</sup> September 2023

Personal details

\_\_\_\_\_  
First name

\_\_\_\_\_  
Last name

\_\_\_\_\_  
Company name

\_\_\_\_\_  
Business field

\_\_\_\_\_  
Address

\_\_\_\_\_  
Date & signature



**Compost  
Systems**

Please fill out the entire form and  
send it to [office@compost-systems.com](mailto:office@compost-systems.com)