



# International Compost Seminar 2024

October 7 - 11, 2024

Controlled Microbial Composting  
and Humus Management



Compost  
Systems

# General information

When?

October 7 - 11, 2024

Where?

Compost Systems GmbH  
in Wels, Austria

Cost per person?

€ 990.-

Seminar language?

English



Click or scan to  
register for the seminar



All information is subject to change.

Limited number of participants!

# Speakers



**Aurel Lübke**  
Managing Director



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



**Sarah Kukral MSc**  
Research and Development

Speakers are subject to change.  
Additional speakers may attend.

# Day 1

09:00 AM

## 1.1 Introduction of speakers and participants

## 1.2 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

11:55 AM

Lunch

13:00 PM

Guided sightseeing walk through Wels

13:30 PM

## 1.3 Overview of today's composting technologies

- Indoor solutions (tunnels, boxes)
- Outdoor solutions (small and big windrows, table piles)
- Agitated and static systems
- Membrane composting
- Advantages and disadvantages

18:00 PM

End

# Day 2

09:00 AM

## 2.1 Compost facility process analysis

## 2.2 Microbial activity in soil and compost

## 2.3 Relevance of microbial life for soil fertility and human life as the top of the food chain

## 2.4 Use of compost

- Quality criteria
- Agricultural application
- Combination with green manure and correct integration to farming methods
- Use compost as tea, application as field spray, benefits
- Soil recultivation with compost
- Production of instant soils, growing media, mixtures
- Beneficial additives

11:55 AM

Lunch

13:00 PM

Drive to composting plant

13:30 PM

## Practical session on composting plant

- Basic evaluation of raw materials
- Moisture management
- Building of compost windrows

14:30 PM

Return to seminar room

15:00 PM

## 2.5 Relevance of biological treatment technologies

- Composting as production method of compost
- Biological drying, biological stabilization
- Production of RDF fuel by drying

## 2.6 Carbon sequestration in soil

## 2.7 Anaerobic digestion

18:00 PM

End





# Day 3

09:00 AM

3.1 Raw material evaluation

3.2 Handling, combining, treating, storing the feedstock  
in the correct way

11:55 AM

Lunch

13:30 PM

3.3 Mass, energy and moisture balance for  
compost and MBT plants

- Evaluation and modeling
- Digestion loss, moisture loss
- Calculation aspects and critical factors
- Energy balance

3.4 Design of a plant

18:00 PM

**HUMUS - THE MOVIE**

(optional; for participants who have not seen the movie yet)

Open end

# Day 4

09:00 AM

4.1 Emissions, their treatment and prevention

4.2 Biofilter

4.3 Regenerative thermal oxidation

4.4 Membrane composting

11:55 AM

Lunch

13:00 PM

Drive to composting plant

13:30 PM

Practical session on composting plant

- Turning of the compost
- Testing routine and procedures for compost
- Moisture control and irrigation
- Checkup on fresh built pile

14:30 PM

Return to seminar room

15:00 PM

4.5 Introduction of various technological solutions  
of Compost Systems

18:00 PM

End

# Day 5

09:00 AM

5.1 Testing and analysis

- Laboratory testing of compost with the CMC Testkit
- Moisture, pH value, humus,  $\text{NH}_4^+$ ,  $\text{NO}_2^-$ ,  $\text{NO}_3^-$  etc.
- Nutrient cycle and development in biological cycle

11:55 AM

Lunch

13:00 PM

End

Additional lectures can take place during the seminar week depending on the availability of speakers. They include the following topics:

Emission trade schemes

CO<sub>2</sub> certificates for compost as an additional  
income stream for composting plants and farms

- Emission Trade Scheme by UNFCCC
- Certification and program

Schedule is subject to change.





# Our hotel recommendations



**Amedia Plaza Hotel Kremsmünstererhof**  
approx. 3 min. walking distance to seminar location  
T +43 7242 46623



**Best Western Plaza Hotel Wels**  
approx. 5 min. walking distance to seminar location  
T +43 7242 220 330



**Hotel Ploberger**  
approx. 6 min. walking distance to seminar location  
T +43 7242 629 41



**Hotel ibis Wels**  
approx. 20 min. walking distance to seminar location  
T +43 7242 930 440

Please note: Participants must book their own accommodation!



Compost  
Systems



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