










AUSTRIA, 10 TO 14 SEPTEMBER 2018

ISWA STUDY TOUR & PRACTITIONER TRAINING COURSE



FRAMEWORK AND PRACTICE OF SUCCESSFUL BIO-WASTE RECYCLING

-  Separate collection schemes for food waste and garden & park waste
-  Techniques in composting – vermi-composting – compost teas – anaerobic digestion – bio-methane fuel production – Mechanical-Biological Treatment (MBT) of residual waste
-  Quality compost production and QM, automated documentation, monitoring & reporting
-  Compost and digestate markets and use
-  Key elements of necessary strategic & regulatory framework setting
-  Public relations and stakeholder involvement
-  The economics of in source separation and biological treatment
-  Successful cooperation with farmers in composting and biogas production
-  Cultural programme: Dinner and Concert at Palais Auersperg (Tbc.)

AUSTRIA'S 30 YEARS EXPERIENCE

SPONSORS:



PARTNERS:



PROGRAMME

TOUR LANGUAGE: ENGLISH

Sunday, 09 Sep - Arrival in Vienna

18:00

Reception and Welcome in [Hotel Flemmings](#)

Day 1 – Monday, 10 Sep

08:15–08:45

Registration in Hotel Lobby

08:45–09:30

Drive to Waste Management Centre Vienna

09:45–10:15

Welcome by ISWA/ISWA Austria - Tour de Table - Introduction

10:15–11:00

Bio-waste management worldwide, – quantities, successful strategic approaches, current challenges.
(*Marco Ricci, ISWA WG on Biological Waste Treatment*)

11:00–12:15/30

Bio-waste management in Austria – quantities, strategic & legal background in the EU and in Austria, current development,
(*Florian Amlinger, 100NGO, European Compost Network and Ulrich Kremser, Federal Ministry for Sustainability and Tourism*)

12:30–13:30

Lunch Buffet: Iss mich! – Bio Catering
www.issmich.at sponsored by:



13:30–17:15

Biowaste management in the City of Vienna
1.8 mio inhabitants, – separate collection splitting of garden waste and kitchen waste; current projects; economic instruments, costs and waste charge system
(*Wojciech Rogalski, City of Vienna - MA48*)
Click [here](#) for more information.

Site visit: Vienna biogas plant for commercial food waste and former foodstuff.
Site visit: Vienna composting plant for bio-waste and garden waste Lobau.



18:00–20:00

Dinner at the [AUGARTEN CAFE RESTAURANT](#) sponsored by:
Transfer to Hotel Flemmings in Vienna.



Day 2 – Tuesday, 11 Sep

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|-------------|---|
| 08:15–09:00 | Drive to BIOGAS plant Margarethen am Moos |
| 09:00–10:30 | EVM Energieversorgung Margarethen am Moos GmbH – liquid fermentation of agricultural by-products and slurry; bio-methane gas station. (<i>Lukas Wannasek, Manager</i>) Click here for more information. |
| 10:30–11:45 | General conditions for successful AD in bio-waste recycling: capacities, green electricity law, feed in tariffs general economics etc. (<i>Alex Luidolt, KBVÖ/Compost & Biogas Association Austria</i>) Click here for more information. |
| 11:45–12:30 | Part I: Food waste prevention policies and practical examples of successful implementation (<i>Felicitas Schneider, Thünen-Institute of Market Analyses, Braunschweig, Germany</i>) |
| 12:30–13:15 | Lunch |
| 13:30–14:15 | Part II: Food waste prevention policies and practical examples of successful implementation (<i>Felicitas Schneider, Thünen-Institute of Market Analyses, Braunschweig, Germany</i>) |
| 14:15–16:30 | Integrated waste management planning for recycling – why source separation makes sense – which facility serves which purpose including residual waste processing (<i>Walter Hauer, tbh Hauer, Consulting Engineer Environment Management</i>) |
| 16:30–17:15 | Drive to Hotel Flemmings in Vienna |
| 18:00–21:45 | Cultural Programme: Dinner & Concert at Palais Auersperg |



Day 3 – Wednesday, 12 Sep

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| 08:15–09:30 | Drive to Mechanical-Biological Treatment Plant St. Pölten |
| 09:30–11:30 | MBT St. Pölten – role, processes, technique of Mechanical-Biological Treatment of residual household waste |
| 11:45–12:30 | Lunch sponsored by:  |
| 12:30–13:30 | Inter-communal Waste Management Association: (Bio)-waste management organisation (St. Pölten Land) in cooperation with 5 farmers: logistics, contracting, economics. (Johann Freiler, GVU St. Pölten Land) Click here for more information. |
| 13:30–15:00 | The Austrian Compost & Biogas Association: <ul style="list-style-type: none"> • Quality Assurance Scheme for Compost • Alliance for the Austrian Bio-Cycle-Bag (Click here for more information.) • Corporate Campaign for better collection “No plastic into the bio-bin” <i>Bernhard Stürmer, Compost & Biogas Association Austria</i> Click here for more information. |
| 15:00–15:30 | Drive to Vermigrand, Absdorf |
| 15:45–17:45 | Vermigrand Alfred Grand Vermicomposting and the Research Eco Farm in Cooperation with the Rodale Institute, Pennsylvania, USA. Click here for more information.  |
| 17:45 – ... | Dinner & drive to dinner in a traditional winery in Wachau and to Hotel Rose in Maria Tafel |



Day 4 – Thursday, 13 Sep

08:30–09:30 Drive to Composting Plant Seiringer - Wieselburg

9:30–11:30 Innovative Composting techniques – ~ 20.000 t composting plant:

- Separation and pre-treatment of different organic waste fractions before composting or anaerobic digestion
- Efficient forced aeration with and without bio-filter systems
- Composting boxes, tunnels and containers



Seiringer Environmental Service & composting plant ([Link](#))
Compost Systems Ltd. ([Link](#))

11:30–12:15 Quality criteria of compost: benefits of compost application, International QM & Quality Certification for composting plants. (*Florian Amlinger, 100NGO*)



12:15–13:00 Lunch

sponsored by: 

13:00–14:30 Drive to Huemer Composting Plant, Gallneukirchen

14:30–16:30 Huemer Compost (12.000 t/a):

- Quality Management for high end Compost products,
- Compost tea production and application,
- Electronic quality management and documentation system, in house quality control and laboratory tests,
- International Compost & Humus projects
- High quality compost – the basis for efficient and sustainable humus management worldwide



Rudolf Huemer ([Link](#))

Urs Hildebrandt – United Research for Soil ([Landmanagement](#))



16:45 – 18:45 Dinner & Open Forum Restaurant

- Short contributions, experience, challenges in home countries by participants
- Q & A Session with *Urs Hildebrandt & Florian Amlinger & Rudolf Huemer*

19:00–20:15 Drive to [Hotel Dorfner](#) in Rohrbach – Upper Austria

Day 5 – Friday, 14 Sep

8:45–9:45

Waste Management Association Rohrbach & the On-Farm composting scheme in Upper Austria (Ursula Salomon, CEO) Recycling Centre Rohrbach, ([UmweltProfis](#)), ([UmweltProfis/Bezirksabfallverband](#))



10:00–10:45

Recycling Centre Rohrbach

10:45–12:00

The farmer as full service partner in bio-waste management providing separate collection and composting service. This farmer has been awarded with the COMPOSKAR 2017 for best quality compost and offers different compost products ([HoferNatur](#)).



12:00–14:00

Farewell lunch - Wrap-up ... Q&A Session & Certificates

14:00–16:30

Drive to Vienna - Tour end - Voluntary meeting for dinner



METHOD FOR THE SEMINARS

This unique series of best practice seminars offers five distinct elements for individual benefit and professional learning:

1. Seminars taught by senior experts of **100NGO**, facility operators and municipal waste managers and invited international experts
2. Visits to facilities demonstrating state-of-the-art bio-waste collection and recycling
3. B2B first hand forums and exchange considering the various background of the participants
4. Time for discussion and exchange of professional experiences.
5. Explanation of general conditions and how to find solutions suiting the individual framework conditions:
 - from an economic point of view
 - from a technical point of view
 - from an organizational point of view

The technical site visits will provide an opportunity to see diverse biological treatment facilities for organic waste and to meet technology suppliers as well as international consultants and advisers. You will experience high level professional composting techniques and quality management from large (100.000 t) in cities to small scale (2000 t) in rural environments.

Bio-waste experts will guide the participants during the whole training course. Additional guests, highly experienced scientific, policy and operational experts, look forward to lively discussions and exchange of ideas for implementing and improving bio-waste separate collection and recycling techniques including composting, anaerobic digestion and bio-methane production.

... AND THIS IS YOUR ACCOMPANYING TEAM



Florian Amlinger is agronomist and director of Compost – Consulting & Development (Austria) and co-founder of '100NGO'.

Florian has been involved in research and development projects for separate collection and composting of organic waste as well as compost application since 1986. He participated in applied research projects involving process optimisation of organic waste composting, the quality definition und best practice of compost application as well as greenhouse gas emissions from composting. He was the leading consultant for the Austrian Compost Ordinance and is author of the Austrian BAT document for composting. Florian holds numerous workshops, and lectures in sustainable bio-waste management, compost production and use in Europe and overseas.



Alex Luidolt, CEO of planergy GmbH, ([Link](#))

Alex began planning and building biogas plants in 2003. In 2009 he opened his own engineering office, planergy GmbH. Since then, he plans biogas- and compost plants and is a specialist in explosion protection and approval planning for business and industry. He is experienced in waste management, energy solutions and technical dimensioning and design for different plants and processes. He also co-wrote the Austrian Standards document ÖWAV RB 515 Anaerobic Waste Management.



Walter Hauer is CEO of Technisches Büro HAUER Umweltwirtschaft GmbH ([Link](#))

Walter has been an independent consultant for waste management, resource efficiency, sustainable development and environmental economics since 1992. He holds degrees in economics and mechanical engineering and is experienced in developing and improving waste management and resource management in different regions – technically, economically, organisationally – with focus on Central Europe, South-East Europe and Iraq. He is experienced in leading the development process with participation of different stakeholders and the public. Also the author of many studies for public and private organisations, Walter is a Mediator, a State Certified Expert and speaker at inter-national congresses.

REGISTRATION Registration deadline: 24 August 2018.

REGISTER ONLINE HERE

The registration fee includes 20% of VAT, it includes accommodation (5 nights), lunch, dinner and refreshments from Monday to Friday afternoon, transportation and lectures. Registration may be transferred to a nominated representative.

Upon registration, participants accept all accommodation arrangements organised by ISWA.

The Study Tour programme may be subject to change.

Maximum 22 and minimum 12 participants due to the nature of the programme. ISWA has the right to cancel the Study Tour if the minimum number of participants is not achieved.

REGISTRATION FEE *(including 20% VAT)**

| Non Members | ISWA / 100NGO / ECN Members |
|-------------|-----------------------------|
| € 2 640,- | € 2 112,- |

*3 participants from 3 different low to lower-middle income countries according to the current [World Bank list](#) as well as 3 students may receive 50% discount on the registration fee. The discount is awarded on a first-come-first-serve basis, please request by email: gnitzsche@iswa.org.

Hotel

At the beginning of the Study Tour, participants will be accommodated at the [Flemings Hotel](#) in Vienna. After successful registration you will be booked by us from Sunday, 9 September. Please consult with the hotel directly in case you would like to book additional nights before and/or after the tour.

Cancellation

Any cancellation of registration must be submitted in writing to by E-Mail: gnitzsche@iswa.org. In case of cancellation of the Study Tour due to unforeseeable events, ISWA will refund the registration fee but not other costs incurred prior to cancellation.

Cancellation and refund will be subject to the following conditions:

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|-----------------------------------|----------------------|
| Before 24 August | 50% will be refunded |
| Between 24 August and 8 September | 10% will be refunded |
| From 9 September and no show | No refund |

Handouts & Certificate

Participants will receive a complete hand-out with all presentations and data sheets of the visited installations together with a certificate of participation.

Optional City Walk in Vienna on 15 September

Please indicate in the registration form if you are interested in a 1.5 to 2 hrs sightseeing City Walk in the historic centre of Vienna on Saturday 15 September morning. Approximate price: 16.- EUR/person