



"Flying into the Future"



## Training Course on Black Soldier Fly Propagation



Organized from the  
"Ich liebe Fisch"-Project  
28th – 30th of April 2021



Federal Ministry  
of Food  
and Agriculture



Gesellschaft  
für Marine Aquakultur



Fraunhofer

EMB

## DAY 1, 28.04.2021

07:00 – 08:00: Arrival of participants

### OPENING PROGRAM- AQUACULTURE CONFERENCE ROOM

TIME	ACTIVITY	RESPONSIBLE PERSONS
08:00	Registration desk opens	Apatsa Chelewani, Hassib Sainan
09:00-09:10	Official Opening of the Training	Prof. Kassam/ HoD, AQF
09:15-09:25	Introduction into scope of the workshop, agenda, time frame, housekeeping issues etc.	Hassib, Apatsa, Esther
09:30-09:45	Introduction into the "Ich liebe Fisch Project", BSF-Extension, Scope and goals	Dr. Marina Gebert (pre-prepared ppt-presentations)
09:50-10:05	Introduction into BSF Propagation, general overview	Dr. Bernd Ueberschär (pre-prepared ppt-presentation)
10:10-10:20	GROUP PHOTO	
10:25-10:45	HEALTH BREAK, NETWORKING	
10:50-11:10	Professional scale production of BSF at Hermetia, a German company	Esther, Hassib, presentation
11:15-11:25	Guest-Presenter (from Crown-Project)	Mozes Mhindurwa, presentation
11:30-12:00	Q & A, related to the presentations in the morning.	All presenter locally, German Partner participating online
12:00- 13:00	LUNCH	
13:30-15:30	Guided Bunda college Aqua Farm Tour (Fish & BSF facilities), Overview	Mofolo Sifo and Apatsa, Esther
15:30–15:40	GROUP PHOTO ON FARM	
15:40-16:20	Q & A, related to the presentations in the morning	All presenter locally, German Partner participating online
END OF 1 <sup>ST</sup> DAY SESSION		

## DAY 2, 29.04.2021

07:00 – 08:30: Arrival of participants

### BUNDA FISH FARM

TIME	ACTIVITY	RESPONSIBLE PERSONS
09:00-9:10	Introduction into the programme of the day	Hassib & Esther
09:15-09:30	General aspects of small-scale BSF propagation	Esther, Paul, <b>Jasmin</b> , presentation
09:30-9:45	Aspects of small-scale BSF propagation related to the scale of the pilot facility at Bunda farm	<b>Esther</b> , Paul, Jasmin, presentation
09:45-10:00	Solar Dryer: Principles, Technology and Construction of a simple device	Torsten Knörr (pre-prepared ppt-presentations)
10:05-10:25	<b>HEALTH BREAK, NETWORKING</b>	
10:30-11:30	<u><b>HANDS-ON SESSIONS</b></u> Practical-Solar dryer; test drying, some fruits, tomatoes etc. and maggots.	Esther, Paul, start with the incubation in the morning, assumed there is a bright sunshine
11:30-12:00	General discussion, related to presentations in the morning (Q & A)	
12:00-13:00	<b>LUNCH</b>	
	<u><b>HANDS-ON SESSIONS</b></u>	
	<u><b>Group 1</b></u>	<u><b>Group 2</b></u>
13:00-14:00	Setting up traps to collect eggs of wild BSF	Sourcing, rating and sorting out various substrates; Demonstration substrate processing
		Esther, Hassib and Apatsa, Peace and Paul
14:00-14:30	<b>HEALTH BREAK, NETWORKING</b>	

	<b><u>Group 1</u></b>	<b><u>Group 2</u></b>	
<b>14:30-15:30</b>	<b>Sourcing, rating and sorting out various substrates; Demonstration substrate processing</b>	<b>Setting up traps to collect eggs of wild BSF</b>	Esther, Hassib and Apatsa, Peace and Paul
<b>15:30-16:00</b>	<b>Review of the results solar dryer</b>		Esther, Paul with all participants
<b>END OF 2<sup>nd</sup> DAY SESSION</b>			

## DAY 3, 30.04.2021

07:00 – 08:30: Arrival of participants

### BUNDA FISH FARM

TIME	ACTIVITY		RESPONSIBLE PERSONS
09:00–9:15	Practical-Construction of a Biopod		Presentation, Peace and Paul
	<b>HANDS-ON SESSIONS</b>		
	<b>Group 1</b>	<b>Group 2</b>	
09:15-10:15	Grading larvae and pupae and demonstrating processing steps; Incubation of BSF larvae	Construction of a Bio Pod	Esther, Hassib and Apatsa, Peace and Paul
10:15-10:30	<b>HEALTH BREAK, NETWORKING</b>		
	<b>Group 1</b>	<b>Group 2</b>	
10:30-11:30	Construction of a Bio Pod	Grading larvae and pupae and demonstrating processing steps; Incubation of BSF larvae	Esther, Hassib and Apatsa, Peace and Paul
11:30-12:00	Final discussion about BSF propagation		All presenter locally, German Partner participating online
12:00-13:00	<b>LUNCH</b>		
13:00-13:20	Each participant to complete a questionnaire about the workshop		All participants
13:20-14:00	Hand-over of certificates for participation in BSF-Workshop		All participants
14:00-14:10	Closing Remarks		Prof. Daud Kassam
14:10-15:00	<b>HEALTH BREAK, NETWORKING, DEPARTURE</b>		All participants
<b>END OF TRAINING</b>			