Tuesday	**online/onsite**	**September 7**			
start time		**speaker**	**Topic**	**presentation title**	**company / institute**
07:00 p.m.		get together	networking		Ratwaage-Biergarten
Wednesday		**September 8**			
start time	**Main Hall**	**speaker**		**title**	**company**
08.00 a.m.		registration			
09:00 a.m.	onsite	Sara Hadjiali		welcome in Magdeburg	Pilot Pflanzenöltechnologie Magdeburg e.V.
	onsite	Tino Sorge		greetings	Member of Bundestag
	onsite	Nils Th. Grabowski	Keynote Lecture to Insect Health and Insect Welfare	Veterinary duties in productive insects	Institute for Food Quality and Food Safety, Hannover University of Veterinary Medicine, Hannover, Germany
	onsite	Nanna Roos	Keynote Lecture toInsect Farming and Production Systems	Insect farming for better nutrition, health and livelihoods in Africa	Department of Nutrition Exercise and Sports (NEXS), University of Copenhagen, Rolighedsvej 26, 1958 Frederiksberg, Denmark
	onsite	Jesus González	Company Presentation	Phileo by Lesaffre, Marcq-en-Baroeul, France	SI Lesaffre (Phileo division)
Coffee Break, Poster exibition, Sponsors Exhibition					
10:30 a.m.					
Session 1	**Main Hall**	**Insect Welfare and Health**			
Chair		**Nils Th. Grabowski**			
11:00 am	online	Itai Opatovsky	Insect Welfare and Health	The super power of fungi: unraveling their metabolic effects on black soldier fly larvae	Laboratory of Insect Nutrition and Metabolism, The Department of Nutrition and Natural Prod-ucts, MIGAL - Galilee Research Centre, Kiryat Shmona, Israel
	onsite	Jesus González	Insect Welfare and Health	Zootechnical performance improvement by Live Yeast Probiotics on Black Soldier Fly Fed (Hermetia illucens)	Phileo by Lesaffre, Marcq-en-Baroeul, France
	online	Thomas Klammsteiner	Insect Welfare and Health	Individual density and rearing scale influence temperature pro-files during black soldier fly rearing	Dept. of Microbiology, Univ. of Innsbruck, Innsbruck, AT
Session 2	**Lecture Room**	**Processing for Food and Feed**			
Chair		**Alessandro Monaco**			
11:00 am	onsite	Artur Kühl	Processing for Food and Feed	Dry Processing of Insects – How does it work in Theory and Praxis	Maschinenfabrik Reinartz GmbH & Co. KG, Neuss, Germany
	onsite	Luc Sweers	Processing for Food and Feed	The potential of dry fractionation for insect processing	Food Quality and Design Group, Wageningen University & Research, Wageningen, The Neth-erlands
	onsite	Maryia Mishyna	Processing for Food and Feed	Fractionation of lesser mealworm (Alphitobius diaperinus) and characteristics of a cream layer	Food Quality and Design group, Wageningen University, Wageningen, the Netherlands
Session 3,	**Main Hall**	**Insect welfare: microorganism in farming**			
Chair		**Nils Th. Grabowski**			
12:05 pm	online	Laurence Auger	Insect Health and Insect Welfare	Host microbiota profile, interactions, and vertical transmission across two generations of Hermetia illucens	Université Laval, Department of Biology, Institute for Integrative and Systems Biology (IBIS), Québec, Canada
	online	Ellen Gorrens	Insect Health and Insect Welfare	Variation in the bacterial community composition of black soldier fly larvae (Hermetia illucens) from consecutive, indus-trial cycles	KU Leuven, Department of Microbial and Molecular Systems, Research Group for Insect Production and Processing, Geel, Belgium
	onsite	Laurens Broeckx	Insect Health and Insect Welfare	Influence of organic side stream nutritional composition on the perfor-mance of Hermetia illucens larvae	Thomas More University of Applied Sciences, RADIUS, Geel, Belgium
Session 4	**Lecture Room**	**Non-food Application of Insects**			
Chair		**Oliver Schlüter**			
12:05 pm	onsite	Piotr Bulak	Non-food Application of Insects	The use of insect for cleaning the environment: ento-moremediation	Institute of Agrophysics, Polish Academy of Sciences, Doświadczalna 4, 20-290 Lublin, Poland
	onsite	Patrick Sudwischer	Non-food Application of Insects	Development of a method to determine chitin in insect protein meal and insect farming by-products	Development of a method to determine chitin in insect protein meal and insect farming by-products
	onsite	Thomas Piofczyk	Non-food Application of Insects	Extraction of chitosan from insect chitin	Pilot Pflanzenöltechnologie Magdeburg e.V. (PPM), Magdeburg, Germany
Lunch break, Poster exibition, Sponsors Exhibition					
13.05 pm					
Keynote	**Main Hall**				
14:05 pm	onsite	Mark Benecke			Öffentlich bestellter und vereidigter Sachverständiger für kriminaltechnische Sicherung, Untersuchung u. Auswertung von biologischen Spuren (IHK Köln), GermanyInternational Forensic Research & Consulting
Session 5	**Main Hall**	**Insect Farming and Production Systems**			
Chair		**Nanna Roos**			
15:00 pm	online	Nina Kröncke	Insect Farming and Production Systems	Determination of moisture, protein and fat content in living mealworm larvae (Tenebrio molitor) by near infrared reflec-tance spectroscopy (NIRS)	Institute of Food Technology and Bioprocess Engineering, University of Applied Sciences Bremerhaven, Bremerhaven, Germany
	onsite	John Ames	Insect Farming and Production Systems	Would An Oat Milk Producing Farm See A (Financial) Bonus To Raising Black Soldier Fly On Its Residues?	madebymade Gmbh, Pegau, Germany
	onsite	Andreas Baumann	Insect Farming and Production Systems	The potential of data in an industrial insect plant	Bühler AG, 9240 Uzwil, Switzerland

Tuesday **start time**	**online/onsite**	**September 7** **speaker**	**Topic**	**presentation title**	**company / institute**
Session 6, Topic 6 **Chair**	**Lecture Room**	**Safety and Environmental Aspects** **Dennis Oonincx**			
15:00 pm	onsite	Nathan Meijer	Safety and Environmental Aspects	Effects of pesticide residues on insects reared for food and feed	Wageningen Food Safety Research (WFSR), Wageningen, The Netherlands
	onsite	Cédric Auriol	Safety and Environmental Aspects	The First Novel Food Authorisation for Insect: a historical and necessary milestone for the whole industry	SAS EAP Group – Agronutris, Saint-Orens de Gameville, France
	onsite	Leen Van Campenhout	Safety and Environmental Aspects	Inoculation experiments with food pathogens during insect rearing and during heat treatment of frass	KU Leuven, Department of Microbial and Molecular Systems (M2S), Research Group for Insect Production and Processing, Geel, Belgium
coffee break and Poster exibition 16:00 pm					
Session 7, Topic 7 **Chair**	**Lecture Room**	**Insect Farming and Production Systems** **Leen van Campenhout**			
16:30 pm	onsite	Kriti Shrestha	Insect Farming and Production Systems	Results of Long-Term Selective Breeding of Hermetia illucens for Industrial Applications	Protix B.V., Dongen, The Netherlands
	onsite	Sara Bellezza Oddon	Insect Farming and Production Systems	Isoenergetic, isonitrogenous, and semi-purified diets for lipid re-quirement determination in Hermetia illucens larvae	Department of Agricultural, Forest and Food Sciences, University of Turin, Italy
	onsite	Antti Vasala		Bioreactor-based mass cultivation of insect larvae	Entoprot Ltd, Oulu, Finland
Session 8, Topic 8 **Chair**	**Main Hall**	Mixed **Mik Van Der Borght**			
16:30 pm	online	Giulia Leni	Insect Processing for Food and Feed	Agro-food leftovers as insect feedstock for producing carotenoid-rich Hermetia illucens	Department of Food and Drug, University of Parma, Parma, Italy
	online	Lennard Pisa	Insect Farming and Production Systems	Bioconversion of chicken manure by housefly larvae (Musca domestica L.); larval performance and substrate conversion in relation to sterilization and carbohydrate addition	Animal Nutrition Group, Wageningen University & Research, The Netherlands
	onsite	Lotte Frooninckx	Farming	Use of grid to improve egg laying efficiency of Tenebrio molitor beetles	Thomas More University of Applied Sciences, RADIUS, Geel, Belgium
17:30 pm		**end of lectures**			
19:30 pm		**evening event**			
Thursday **start time**		**September 9** **speaker**		**title**	**institute/company**
08.30 am **Keynote lecture**	**Main Hall**				
09:00 am	onsite	Alessandro Monaco	Keynote	Looking for Insects in the Regulatory Forest: Critical Aspects and Challenges Posed by the Regulatory En-vironment applicable to Insects in the European Union	Universität Bayreuth, Fakultät 7/Campus Kulmbach, Germany
	onsite	Dennis Oonincx	Keynote	Sustainability in the insect sector	Animal Nutrition Group, Wageningen University & Research, the Netherlands
	onsite	Stefan Kirchner	Company Presentation	GEA Solutions for recovery of protein enriched insect meals and lipids	GEA
Session 9, Topic 9 **Chair**	**Main Hall**	**Oliver Schlüter**			
10:20 am	online	Nina Parry	NonFood	The effect of chicken manure and pre-consumer waste on black soldier fly (Hermetia illucens) larval performance at industrial scale	University of Pretoria, Pretoria, South Africa
	onsite	Anna Valentina Luparelli	NonFood	Modification in composition of black soldier fly puparium, prepupae and adults after Lactobacillus fermentation	Department of Food Science and Drug, University of Parma, Parma, Italy
	online	Shahida Anusha Siddiqui	Insect Farming and Production Systems	Automated, modular systems for rearing Hermetia illucens larvae – design considerations and sustainability.	Technical University of Munich Campus Straubing for Biotechnology and Sustainability, Straubing, Germany
Session 10 **Chair**	**Lecture Room**	**Insect Processing for Food and Feed** **Mik Van Der Borght**			
10:20 am	onsite	Lenka Kouřimská	Insect Processing for Food and Feed	Purines in edible insects and their suitability for people suffering gout	Department of Microbiology, Nutrition and Dietetics Faculty of Agrobiology, Food and Natural Resources Czech University of Life Sciences Prague
	onsite	Nils Grabwowski	Insect Farming and Production Systems	Small-scale food cricket production in Thailand, Cambodia, and Germany using local feed sources	Institute for Food Quality and Food Safety, Hannover University of Veterinary Medicine, Hannover, Germany
	onsite	Verena Böschen	Insect Processing for Food and Feed	Boundary conditions in insect engineering (from air humidification to the fractionation to the end product)	Forschungsinstitut Futtermitteltechnik der IFF, Braunschweig, Deutschland
coffee break and Poster exibition 11:20 am					
Session 11 **Chair**	**Main Hall**	**Mixed** **Leen Van Campenhout**			
11:50 am	online	E.F. Hoek – van den Hil	Safety and Environmental Aspects	Safety of black soldier fly (Hermetia illucens) larvae reared on different biowaste substrates	Wageningen Food Safety Research (WFSR), Wageningen University & Research, P.O. Box 230, 6700 AE Wageningen, the Netherlands
	online	Catriona Lakemond	Insect Processing for Food and Feed	Benchmarking insects suitability in food supply chains under cri-sis conditions	Food Quality & Design, Wageningen University, Wageningen, The Netherlands
	online	Cecilia Lalander	Insect Farming and Production Systems	Feasibility of small-scale BSFL composting in the EU	Department of Energy and Technology, Swedish University of Agricultural Sciences, Uppsala, Sweden

Tuesday start time	online/onsite	September 7 speaker	Topic	presentation title	company / institute
Session 12 **Chair**	**Lecture Room**	**Mixed** **Verena Böschen**			
11:50 am	onsite	Mik Van Der Borght	Insect Processing for Food and Feed	Why Black Soldier Fly Larvae Protein Determinations Bug(ged) Researchers	KU Leuven, Department of Microbial and Molecular Systems (M2S), Research Group for Insect Production and Processing, Geel, Belgium
	onsite	Aman Paul	Non-food Application of Insects	Anti-arthritic activity of black soldier fly (Hermetia illucens) larvae protein derivatives	Centre of Oxygen, Research and Development, University of Liege, Liege, Belgium
	onsite	Andreas Baur	Insect Farming and Production Systems	Monitoring of Tenebrio Molitor pupae based on Region Based – Convolutional Neural Networks (R-CNN)	Institute of Fluid Mechanics, FAU Erlangen – Nuremberg, Erlangen, Germany
01:00 pm	onsite	**Conclusion**			
	onsite	Thomas Piofczyk / Sara Hadjiali		VDI Best Young Scientists Presentation Award	PPM
	onsite	Thomas Piofczyk / Sara Hadjiali		Poster Award	PPM
	onsite	Oliver Schlüter		Invitation to next INSECTA	ATB
01:30 pm		Refreshment			
02:00 pm		**End of Conference**			

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Sponsors Exhibition					
		AquaBioTech Group WEDA - Dammann & Westerkamp GmbH Beekenkamp Verpakkingen B.V.			
Poster Exhibition					
1.01		Brigitte R. Paulicks	Insect Health and Insect Welfare	Experimental Investigations about the Dietary Protein Requirement of the Yellow Mealworm (Tenebrio molitor)	Chair of Animal Nutrition, TUM School of Life Sciences, Freising, Germany
1.02		Jeroen De Smet	Insect Health and Insect Welfare	The impact of genotype-environment interactions on the microbiota in the larvae of the black soldier fly (Hermetia illucens)	KU Leuven, Department of Microbial and Molecular Systems (M2S), Research Group for Insect Production and Processing, Geel, Belgium
2.01		Sabine Van Miert	Insect Farming and Production Systems	ValuSect: Valuable inSects	Thomas More University of Applied Sciences, RADIUS, Kleinhoefstraat 4, 2440, Belgium
2.02		Carina D. Heussler	Insect Farming and Production Systems	Pretreatment of feeding substrate accelerates the life cy-cle of the Black Soldier Fly and changes its potential ap-plications in food waste re-utilization	Department of Microbiology University of Innsbruck, Technikerstr. 25, 6020 Innsbruck, Austria
2.03		Maricruz Bermúdez-Serrano	Insect Farming and Production Systems	Exploring the production and export potential of cricket powder in Costa Rica	SEPT Competence Center, Leipzig University, Ritterstrasse 9-13, 04109 Leipzig, Germany
2.04		Pascual J.J.	Insect Farming and Production Systems	Nutritive value of wheat bran in yellow mealworms (Tenebrio molitor): towards feed efficiency optimization	Feedect, Calle de la Buitrera, 6, 46180 Valencia, Spain
2.05		Nils Th. Grabowski	Insect Farming and Production Systems	Growth patterns in small-scale farmed edible crickets in Germany	Institute for Food Quality and Food Safety, Hannover University of Veterinary Medicine, Hannover, Germany
2.06		Nils Th. Grabowski	Insect Farming and Production Systems	Small-scale food cricket production in Thailand, Cambodia, and Germany using local feed sources	Institute for Food Quality and Food Safety, Hannover University of Veterinary Medicine, Hannover, Germany
2.07		Costanza Jucker	Insect Farming and Production Systems	Black soldier fly (BSF) production using the organic fraction of municipal solid waste.	Department of Food, Environmental and Nutritional Sciences, University of Milan, via Celoria 2, 20133, Milan, Italy
2.08		Michal Kurečka	Insect Farming and Production Systems	Carrot supplement enhanced the levels of lipophilic vitamins in Jamaican field crickets - preliminary results	Department of Zoology and Fisheries, Czech University of Life Sciences Prague, Prague, Czech Republic
2.09		Patrick Klüber	Insect Farming and Production Systems	Strategies and suggestions for optimizing Hermetia illucens rearing	Fraunhofer Institute for Molecular Biology and Applied Ecology, Giessen, Germany
2.10		Petra Škvorová	Insect Farming and Production Systems	Influence of feed on nutritional quality Gryllus assimilis	Department of Microbiology, Nutrition and Dietetics, Czech University of Life Sciences, Prague, Czech Republic
3.01		Loïc Detilleux	Safety and Environmental Aspects	In what context do you want to eat edible insects?	Economics and Rural Development, Gembloux Agro-Bio Tech - University of Liège, Gembloux, Belgium
3.02		Noor Van Looveren	Safety and Environmental Aspects	Impact of heat treatment on the microbiological composition and safety of frass of black soldier fly larvae (Hermetia illucens)	KU Leuven, Department of Microbial and Molecular Systems, Research Group for Insect Production and Processing, Geel, Belgium
3.03		Manfred Mielenz	Safety and Environmental Aspects	Effects of sewage sludge recyclate supplementation of substrate on cadmium, lead and iron contents in BSF larvae	Leibniz Institute for Farm Animal Biology (FBN), Dummerstorf, Germany
3.04		Marwa Shumo	Safety and Environmental Aspects	A molecular survey of bacterial species in the guts of black sol-dier fly larvae (Hermetia illucens) reared on two urban organic waste streams in Kenya	Center for Development Research (ZEF), Bonn, Germany; Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Potsdam, Germany; International Centre of Insect Physiology and Ecology (icipe), Nairobi, Kenya
4.01		Johann Detilleux	Non-food Application of Insects	Effect of Black Soldier Fly larvae on horse fecal emission of me-thane	FARAH, Production animale durable, University of Liège, Liège, Belgium
4.02		Daniel Gärttling	Non-food Application of Insects	Effects of Black Soldier Fly (Hermetia illucens) by-product application on the whole-cycle performance of fungus gnats (Diptera: Sciaridae)	University of Hohenheim – Department of Applied Entomology, Hohenheim, Germany
4.03		**Monika Kaczor**	Non-food Application of Insects	Biovalorization of digested municipal sewage sludge: Hermetia illucens vs Tenebrio molitor	Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland
4.04		Thomas Klammsteiner	Non-food Application of Insects	Frass to gas: industrial insect rearing residues as co-substrates for anaerobic digestion	Department of Microbiology, University of Innsbruck, Innsbruck, Austria
4.05		Consol Kubayi	Non-food Application of Insects	Frass from black soldier fly larvae as a valuable fertilizer and biopesticide for crops	SARChI-Chair On Biodiversity Value and Change, Department of Biology , University of Venda, Thohoyandou, South Africa
4.06		Carolin Lappöhn	Non-food Application of Insects	An economic purification platform for insect-derived antimicrobial peptides	Institute of Bioprocess Engineering and Pharmaceutical Technology, University of Applied Sciences Mittelhessen, Giessen, Germany
4.07		Thomas Lefebvre	Non-food Application of Insects	Termites farming: a new horizon to bioconvert lignin-rich residues into high-value products	Ÿnsect, R&D department, Evry, France
4.08		Harald Wedwitschka	Non-food Application of Insects	Competitive Insect Products Feedstock suitability assessment for Hermetia rearing and waste treatment of insect farming residues by anaerobic digestion	Deutsches Biomasseforschungszentrum gemeinnützige GmbH, Leipzig, Germany
4.09		Marios Psarianos	Non-food Application of Insects	Alternative processes for the production of chitosan from house crickets (Acheta domesticus)	1Quality and Safety of Food and Feed, Leibniz Institute for Agricultural Engineering and Bioecon-omy (ATB), Max-Eyth-Allee 100, 14469 Potsdam, Germany
4.10		Giacomo Rossi	Non-food Application of Insects	Description and characterization of the fluorescence excitation emission matrix of powders from selected edible Orthoptera species: A chemometric approach	1Quality and Safety of Food and Feed, Leibniz Institute for Agricultural Engineering and Bioeconomy (ATB), Max-Eyth-Allee 100, 14469 Potsdam, Germany

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5.01		Sayed Mahdi Hossaini	Insect Processing for Food and Feed	Modular environmental and economic assessment applied to the production of Hermetia illucens	German institute of food technologies- DIL, Quakenbrück, Germany
5.02		Freek IJdema	Insect Processing for Food and Feed	Substrate fermentation evaluated as a strategy to improve the ω-3 content of black soldier fly larvae (Hermetia illucens)	KU Leuven, Department of Microbial and Molecular Systems, Research Group for Insect Production and Processing, Geel, Belgium
5.03		Claudia Keil	Insect Processing for Food and Feed	Systematic studies on the antioxidant capacity and volatile compound profile of yellow mealworm larvae (Tenebrio molitor L.) under different drying regimes	TU Berlin, Institute of Food Technology and Food Chemistry, Department Food Chemistry and Toxicology, Berlin, Germany
5.04		Rebeca Ramos-Bueno	Insect Processing for Food and Feed	Protein hydrolysates from edible insects: agricultural applications	Tecnova Technology Centre, Almeria, Spain
5.05		Patrick Sudwischer	Insect Processing for Food and Feed	The influence of the Maillard reaction on insect products and their nutritional score	Forschungsinstitut Futtermitteltechnik der IFF, Braunschweig, Deutschland
5.06		Nuria Martin Tome	Insect Processing for Food and Feed	Palatability improvement potential of Black Soldier Fly Larvae Protein Hydrolysate in Pacific White Shrimp diets	Protix B.V., Dongen, The Netherlands
5.07		Dries Vandeweyer	Insect Processing for Food and Feed	Survival of black soldier fly larvae (Hermetia illucens) in water at different temperatures: potential for storage and transport	KU Leuven, Department of Microbial and Molecular Systems, Research Group for Insect Production and Processing, Geel, Belgium
5.08		Michał Krzyżaniak	Insect Processing for Food and Feed	Yellow mealworm composition after convection and freeze drying – preliminary results	Department of Genetics, Plant Breeding and Bioresource Engineering, Faculty of Agriculture and Forestry, University of Warmia and Mazury in Olsztyn, Poland
5.09		Ren Sakurai	Insect Processing for Food and Feed	Target marketing on edible insects' business	Graduate School of Regional Policy, Takasaki City University of Economics, Gunma, Japan