

## Insect Production

Food – Applications  
New industries

## Programme

Tuesday, October 10<sup>th</sup> 2017

9:00 Opening coffee

9:25 Welcome address, Manuel GEA, AdebioTech ; Samir MEZDOUR, AgroParisTech

9:30 Keynote address

Paul VANTOMME, Senior Forestry Officer, FAO

*Farming insects for Food and Feed, a global overview on opportunities and constraints*

### 10:15 – 3:10 SESSION 1 – Insect rearing from research to industrial production

Coordinators: Philippe LE GALL, IRD et Frédéric MARION-POLL, AgroParisTech

10:15 Philippe LE GALL, IRD et Frédéric MARION-POLL, AgroParisTech  
*Domesticating insects? How, why do it?*

10:45-11:15 Coffee break / Posters on display / Exhibition

11:15 Longyu ZHENG, State Key Laboratory of Agricultural Microbiology, Huazhong Agricultural Univ. China  
*Insect mass breeding and biorefinery technology to produce protein and by-products*

11:45 Fogoh John MUAFOR, Living Forest Trust, Cameroon et Mélanie RAMNUTH, Experts-Solidaires  
*Insect production chain in Cameroon and setting-up cricket rearing in Benin*

12:15 Valéry BONNET, Delta Neu  
*Ventilation and heat-elimination system for insect rearing*

12:35 Franck LAUNAY, IPSB  
*The constraints of the scale up of insect production*

12:55 Anne DEGUERRY, Entofood  
*From research to industrial insect production: Difficulties and Challenges of moving to scale*

1:15-2:30 Buffet / Posters on display / Exhibition

Silver



- 2:30 **Jérôme COSTIL**, Mutatec  
*Which types of biomass can be valorised by ento-conversion? Stockpiles, regulatory, technical and economic constraints*
- 2:50 **Damien MOREL**, APPI  
*Different production systems for insect rearing*

## 3:10-6:00 SESSION 2 – Insect health and health safety

Coordinator: **Christina NIELSEN-LEROUX**, INRA

### A) Insect health

- 3:10 **Jørgen EILENBERG**, University of Copenhagen  
*Natural enemies of insect production systems: where are risks and how can we address the risks?*
- 3:30 **Christina NIELSEN-LEROUX**, INRA  
*Impact of food and microbiota*
- 3:50 **Anne-Nathalie VOLKOFF**, DGIMI and **Mylène OGLIASTRO**, INRA  
*Metagenomics: a tool to develop the health diagnosis of insect breeding*
- 4:10 **Claire BEAUVAIS**, Bee-keeping Veterinarian  
*Biosafety applied to insect rearing for human and animal food*

4:30-5:00 Coffee break / Posters on display / Exhibition

### B) Health safety

- 5:00 **Christophe TRESPEUCH**, Mutatec  
*Insects, a safe and healthy raw material for animal feed: example of the CertiFLY project*
- 5:20 **Jean-Philippe DESLYS**, CEA  
*Ensuring health safety for organic wastes fed to insects and for end-products*
- 5:40 Speaker  
*Awaiting title*
- 6:00 Photo-op with posters
- 6:30 Photo-op with stands
- Flottweg France
- HF Group
- Micronutris
- Monts

7:00 Cocktail / Posters on display / Exhibition

## Wednesday, October 11<sup>th</sup> 2017

8:30 Opening coffee

### 9:00-12:00 SESSION 3 – Prospects in human and animal food

Coordinator: **Samir MEZDOUR**, *AgroParisTech*

- 9:00 **Samir MEZDOUR**, *AgroParisTech*  
*Transformation processes of insect larvae for ingredients preparation*
- 9:20 **Grégory LOUIS**, *Entomo Farm*  
*Insect-based materials and their markets*
- 9:40 **Guillaume GRAS**, *InnovaFeed*  
*Worth and relevance of insect proteins for feeding salmonids*
- 10:00 **Christine BUREL**, *INRA* et **Michel LESSIRE**, *INRA*  
*The use of insects in feeding fish and poultry: digestibility, impact on animal products*
- 10:30 **Nicolas CÉSARD**, *MNHN* et **Esther KATZ**, *IRD-PALOC PARIS*  
*Changes and acceptability in food consumption*

11:00-11:20 Coffee break / Posters on display / Exhibition

- 11:20 **Charlotte FLORET**, *AgroParisTech-JIMINI'S*  
*Texturization of insect proteins and explanation for choosing the insteak*
- 11:40 **Maylis RADONDE**, *Micronutris*  
*Quality system for the edible insect industry*

### 12:00-4:00 SESSION 4 – Environmental, economic and societal approach in order to assess the relevance of each sector

Coordinators: **Philippe SCHMIDELY**, *AgroParisTech* et **Sandrine DEREUX**, *Pôle de compétitivité IAR*

- 12:00 **Patricia LE CADRE**, *Céréopa*  
*Protein autonomy of livestock farms: sustainability first*
- 12:30 **Philippe SCHMIDELY**, *AgroParisTech*  
*Economic approach to the valorization of insect meal in animal feed*
- 12:40-2:00 Buffet / Posters on display / Exhibition
- 2:00 **Marc BARDINAL**, *ADEME*  
*Insects: from production to consumption, an assessment of the industry*
- 2:20 **Lars-Henrik HECKMANN**, *Danish Technological Institute*  
*inVALUABLE: Insect Value Chain in a Circular Bioeconomy*
- 2:40 **Catherine MACOMBE**, *IRSTEA* et **Joëlle AUBIN**, *INRA*  
*Valorisation scenarios for insect rearing designed in the DESIRABLE project*
- 3:00 **Leen BASTIAENS** and **Maarten UYTTEBROEK**, *VITO*  
*Valorisation of insect biomass to high-added value products like proteins and chitin*
- 3:20 **Florian NOCK**, *JIMINI'S*  
*The insect in all its forms; a marketing and didactic approach of new protein sources*
- 3:40 **Sylvaine PORET**, *INRA*  
*Consumers' acceptability of insect meal in animal feed*

4:00-4:20 Coffee break / Posters on display / Exhibition

## 4:20-5:30 Round table – Regulatory challenges for the industry: valorisation, the use of by-products for a circular economy

Coordinators: **Maelenn POITRENAUD**, *Veolia* et **Jean-Philippe DESLYS**, *CEA*

**Brigitte HEIDEMANN**, *DGAL*

**Antoine HUBERT**, *IPIFF*

**Philippe LE GALL**, *IRD*

**Frédéric MARION-POLL**, *AgroParisTech*

**Philippe SCHMIDELY**, *AgroParisTech*

**Ariane VOYATZAKIS**, *BPI France*

5:30 Closing conference

6:00 Conclusions

**Samir MEZDOUR**, *AgroParisTech*

**Thursday, October 12<sup>th</sup> 2017**

## 9:00-1:00 Workshops

### CycleFarms

#### *How to set up and start off one's own black soldier fly farm?*

- Hermetia's reproduction / Breeding larvae / Use and transformation
- Construction and demonstration to learn how to run this farm

### JIMINI'S

#### *How to consciously incorporate insects into our nutrition?*

- Come and test insects in all their forms and discover how to make oneself familiar with insects in order to make them accepted in our daily food
- Simple and quick cooking workshop

### Micronutris

#### *Qualitative study of the development of a new food product*

- Presentation of market opportunities and technical constraints with the development of a new insect-based food product
- In this workshop, you will be part of a focus group whose aim will be to realistically determine the next product to be launched by Micronutris