



OLSZTYN, 19-20 JUNE 2024

2ND SCIENTIFIC CONFERENCE

# Insects for Feed and Food



UNIwersYTET  
WARMIŃSKO-MAZURSKI  
W OLSZTYNIE



WYDZIAŁ MEDYCYNY  
WETERYNARYJNEJ



Conference Center  
at the University of Warmia and Mazury in Olsztyn  
ul. Dybowskiego 11, 10-719 Olsztyn



[www.owady2024.syskonf.pl](http://www.owady2024.syskonf.pl)



[owad2024@uwm.edu.pl](mailto:owad2024@uwm.edu.pl)

The conference is co-financed by the state budget



**Doskonała  
Nauka**

# 2ND SCIENTIFIC CONFERENCE Insects for Feed and Food

Olsztyn, 19-20 June 2024



## Scientific Committee

**Piotr Bulak Ph.D.**

Bohdan Dobrzański Institute of Agrophysics of the Polish Academy of Sciences in Lublin

**Prof. Dr. hab. Damian Józefiak**

Head of the Department of Animal Nutrition, Poznań University of Life Sciences.  
Member of the Board, originator and co-founder of HiProMine.

**Assoc. Prof. Marcin Kadej**

Head of the Laboratory of Forensic Biology and Entomology.  
Dean of the Faculty of Biological Sciences at the University of Wrocław

**Vet. Marta Koncewicz-Jarząb**

Director of the Bureau of Feed, Pharmacy and Disposal. Chief Veterinary Inspectorate

**Assoc. Prof. Agnieszka Kosewska**

Department of Entomology, Phytopathology and Molecular Diagnostics.  
Faculty of Agriculture and Forestry, UWM in Olsztyn

**Prof. Dr. hab. Krzysztof Kwiatek**

Head of the Department of Feed Hygiene,  
National Veterinary Institute - National Research Institute in Puławy.

**Assoc. Prof. Michał Krzyżaniak**

Department of Genetics, Plant Breeding and Bioresource Engineering.  
Faculty of Agriculture and Forestry UWM in Olsztyn.

**Prof. Dr. hab. Bogdan Lewczuk**

Head of the Department of Histology and Embryology.  
Dean of the Faculty of Veterinary Medicine UWM in Olsztyn

**Prof. Dr. hab. Daria Murawska**

Head of the Department of General Commodity Science and Experimentation,  
Faculty of Animal Bioengineering, UWM in Olsztyn

**Assoc. Prof. Piotr Zapotoczny**

Department of Systems Engineering, Faculty of Technical Sciences, UWM in Olsztyn



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## Organizing Committee

**Łukasz Zielonka**

Chairman of the Organizing Committee

**Tadeusz Bakuła**

Polish Association of Insect Breeders and Producers

**Mirosław Baranowski**

**Marzena Barasińska**

**Michał Dąbrowski**

**Magdalena Gajęcka**

**Remigiusz Gałęcki**

**Małgorzata Gugolek**

**Ewa Jakimiuk**

**Kazimierz Obremski**

Department of Veterinary Prevention and Feed Hygiene,  
Faculty of Veterinary Medicine, University of Warmia and Mazury in Olsztyn

**Robert Stryński**

Department of Biochemistry,  
Faculty of Biology and Biotechnology, UWM in Olsztyn

**Paweł Górzyński**

Co-owner of TENEbria Sp. z o.o.,  
Dworcowa Street 36, 14-260 Lubawa



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# Prelegenci



**Dr. Habil. Marcin Kadej**  
Professor at the University of Wrocław  
Department of Invertebrate Biology, Evolution and Conservation,  
Dean of the Faculty of Biological Sciences, University of Wrocław

**Prof. Dr. Karol Barragán-Fonseca**

Associate Professor (Tenure Track) at the Universidad Nacional de Colombia, Director of Terrestrial Arthropod Research Center, Departamento De Producción Animal, Facultad De Medicina Veterinaria Zootecnia, La Universidad Nacional de Colombia



**Remigiusz Gałęcki, DVM, PhD**

Assistant Professor, Department of Veterinary Prevention and Feed Hygiene, Faculty of Veterinary Medicine, University of Warmia and Mazury in Olsztyn

**Marian Peters**

CEO of New Generation Nutrition B.V. (NGN), Wageningen, Holand



**Dr. Habil. Tadeusz Bakula**  
Professor at the University of Warmia and Mazury in Olsztyn

Polish Association of Insect Breeders and Producers

**Francis Maugèr**

Political Adviser for Animal Feed - Insect Farming  
Political Adviser in charge of insect farming issues at Eurogroup for Animals, a pan-European organization dedicated to animal protection



**Nils Th. Grabowski, Dr. med. vet.**

Head of Department at the Institute for Food Quality and Food Safety,  
University of Veterinary Medicine in Hannover, Germany

**Dr. Wojciech Zahaczewski**

Co-founder and Sales Director in OVAD Co. Ltd.



# Framework Program of the Conference

19 June | **Wednesday**

Conference Center at the University  
of Warmia and Mazury, ul. Dybowskiego 11,  
Conference room



| Hour                                | Session title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9 <sup>00</sup> - 10 <sup>00</sup>  | Registration of Conference participants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10 <sup>00</sup> - 10 <sup>15</sup> | Opening of the Conference                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Plenary session (1)                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 10 <sup>15</sup> - 12 <sup>00</sup> | <p><b>Edible Insects from an Entomological Perspective</b><br/><b>Dr. Habil. Marcin Kadej, Professor at the University of Wrocław</b><br/>Department of Invertebrate Biology, Evolution and Conservation,<br/>Dean of the Faculty of Biological Sciences, University of Wrocław</p> <p><b>Insects as Food and Feed in Latin America:<br/>Advances and Perspectives</b><br/><b>Prof. Dr. Karol Barragán-Fonseca</b><br/>Assistant Professor (Tenure Track) at the Universidad Nacional de<br/>Colombia, Director of Terrestrial Arthropod Research Center,<br/>Departamento De Producción Animal, Facultad De Medicina<br/>Veterinaria Zootecnia, La Universidad Nacional de Colombia</p> |
| 12 <sup>00</sup> - 12 <sup>30</sup> | Coffee break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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19 June | **Wednesday**

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Conference room



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## Plenary session (2)

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12<sup>30</sup> - 14<sup>30</sup>

### The Ento-Revolution: Edible Insects and the Future of Development

**Remigiusz Gałęcki, DVM, PhD**

Assistant Professor, Department of Veterinary Prevention and Feed  
Hygiene, Faculty of Veterinary Medicine, University of Warmia  
and Mazury in Olsztyn

### Lessons in Scaling the Insect Sector on a National Level, Benefiting from Public-Private Partnerships

**Marian Peters**

CEO of New Generation Nutrition B.V. (NGN), Wageningen, Holand

### Development of the Insect Sector in Poland

**Dr. Habil. Tadeusz Bakuła, Professor at the University of Warmia  
and Mazury in Olsztyn**

Polish Association of Insect Breeders and Producers

14<sup>30</sup> - 16<sup>00</sup>

### Lunch break

Lunch will be served in the cafeteria at the Conference Center,  
ul. Dybowskiego 11



# Framework Program of the Conference

19 June | **Wednesday**

Conference Center at the University  
of Warmia and Mazury, ul. Dybowskiego 11,  
Conference room



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Thematic session (A) | Conference Room | Reports

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16<sup>00</sup> - 17<sup>30</sup>      Technologies in Insect Farming

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Thematic session (B) | Conference Room | Reports

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17<sup>30</sup> - 18<sup>30</sup>      Selected Aspects of *Hermetia illucens*  
and *Tenebrio molitor* Farming

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Poster session | Hall at the Conference Center

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18<sup>30</sup> - 18<sup>50</sup>      Poster session

19<sup>30</sup>      Gala Dinner  
Integration Meeting | Omega Hotel in Olsztyn



# Framework Program of the Conference

20 June | **Thursday**

Conference Center at the University  
of Warmia and Mazury, ul. Dybowskiego 11,  
Conference room



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## Plenary session (3)

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9<sup>30</sup> - 11<sup>45</sup>

### Insect Farming in European Union Regulations: What Are the Missing Pieces?"

**Francis Maugèr**

Political Adviser for Animal Feed - Insect Farming

Political Adviser in charge of insect farming issues at Eurogroup  
for Animals, a pan-European organization dedicated to animal protection

### Teaching and Training Veterinarians in Relation with Productive Insects

**Nils Th. Grabowski, Dr. med. vet.**

Head of Department at the Institute for Food Quality and Food Safety,  
University of Veterinary Medicine in Hannover, Germany

### "A Beautiful Mourning" – Welfare in Insect Farming

**Dr Wojciech Zahaczewski**

Co-founder and Sales Director in OVAD Co. Ltd.

11<sup>45</sup> - 12<sup>30</sup>

Coffee break



# Framework Program of the Conference

20 June | **Thursday**

Conference Center at the University  
of Warmia and Mazury, ul. Dybowskiiego 11,  
Conference room



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Thematic session (C) | Conference Room | Reports

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12<sup>30</sup> - 14<sup>45</sup>

Selected Sanitary and Veterinary Aspects  
of Insect Protein Production

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Research Project Session (D) | Conference Center at the University | Crimson Room

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12<sup>30</sup> - 14<sup>45</sup>

Automated Mealworm (*Tenebrio molitor*) Farming  
System – Feeding Technology

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Research Project Session (F) | Conference Center at the University | Blue Room

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12<sup>30</sup> - 14<sup>45</sup>

Insect Protein-Based Food for Companion  
Animals

14<sup>45</sup> - 15<sup>30</sup>

Lunch break

Lunch will be served in the cafeteria at the Conference Center, ul. Dybowskiiego 11

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Thematic session (F) | Conference Room | Reports

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15<sup>30</sup> - 17<sup>00</sup>

Legal and Economic Aspects and Quality Control  
Systems in Insect Breeding and Farming

17<sup>00</sup> - 17<sup>30</sup>

Discussion

Closing Remarks, End of the Conference

Exhibition in the Hall at the Conference Center



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## ORGANIZER'S OFFICE

Department of Veterinary Prevention and Feed Hygiene  
Faculty of Veterinary Medicine  
University of Warmia and Mazury in Olsztyn

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## PARTNERS



Warmińsko-Mazurski  
Ośrodek Doradztwa Rolniczego  
z siedzibą w Olsztynie



POLSKIE STOWARZYSZENIE  
HODOWCÓW I PRZETWÓRCÓW TOWARÓW



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