

## **TERMS OF PARTICIPATION**

**eutema GmbH**, Lindengasse 43/13, A-1070 Vienna, acting in their capacity as a party to the FP7 PROteINSECT project Consortium<sup>1</sup>, in the following referred to as “PROteINSECT” organises a Student Competition to collect ideas for designing an

### **Industrial Maggot Preservation Methodology**

**The methodology includes processes, equipment and auxiliaries to be presented as a design study for preserving 1000 kg wet maggots per day**

#### **1. Functionality to be provided:**

- preserving<sup>2</sup> fly maggots (*Musca Domestica*)
- suitable for commercial scale of 1000 kg of wet (alive) maggots per day
- Operational under minimal environmental load:
- at environmental conditions: 25 °C, 1013 mBar and 70 % humidity

#### **2. Technical requirements:**

- the maximum temperature the maggots are subjected to must not exceed 65°C
- After treatment the maggots must be stable for at least 12 Months at room temperature
- The energy input (fossil fuel, electricity, and other sources) is to be calculated
- CO2 neutral energy sources should be calculated and presented separately
- The energy for storing maggots for 12 months must also be calculated (dry maggots (< 5% moisture) are assumed to have no energy costs associated with storage)

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<sup>1</sup>THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS (FERA) United Kingdom; Eutema GmbH, Austria; CAB INTERNATIONAL, United Kingdom; NUTRITION SCIENCES NV, Belgium; KATHOLIEKE UNIVERSITEIT LEUVEN, Belgium; MINERVA HEALTH & CARE COMMUNICATIONS LTD, United Kingdom; GRANTBAIT LIMITED, United Kingdom; GUANGDONG ENTOMOLOGICAL INSTITUTE, China; Huazhong Agricultural University, China; FISH FOR AFRICA - GHANA, Ghana; INSTITUT D'ECONOMIE RURALE, Mali; THE UNIVERSITY OF STIRLING, United Kingdom ;  
[http://cordis.europa.eu/project/rcn/105074\\_en.html](http://cordis.europa.eu/project/rcn/105074_en.html) FP7 Project reference: 312084

<sup>2</sup> Drying is ONE of several options. If you describe, in full functional detail, a “super-ionic preservation beam” all the better.

### 3. Submission

The design must be submitted as a **PDF document**, with a maximum page limit (size DIN A4) of: 1 cover page, **10 A4 or 5 A3 pages** of Technical drawings, 5 Pages of Description (all text must be in ENGLISH, Font Arial or similar, with **Font Size 11 or higher**)

5 Pages of Description should include:(approximate Page length)

- Abstract (1/2 Page)
  - Introduction/Aims (1/2 Page)
  - Methodology – technical description
  - specification
  - requirement for labour input
  - scalability
  - energy demand etc.
  - Conclusion – benefits and limitations (1 Page)
- } (3 Pages)

The submitted material **must not** contain the names of students, teachers, schools or countries on any part of the submitted material, in order to ensure **anonymity**.

### 4. Milestones and DEADLINE for SUBMISSION

The submission is made by email, at the latest at 17:00 CET on July 31. 2015. Maximum file size 10 MB (PDF; ZIP or RAR file-type).

30. September 2014 – Open for Participants

15. June 2015 17:00 CET– Close of Registration

31. July 2015 17:00 CET– Close of the Competition

August to September 2015 - Evaluation

1. November 2015 – announcement of the winner by email and on the PROteINSECT website

**Only students who have registered for the competition before 17:00 CET 15. June 2015 can participate. To register send the completed registration document:** (regiser.rtf available at <http://www.proteinsect.eu/index.php?id=competition>) by email (to: competition@proteinsect.eu)

**Any material received after 17:00 CET on 31. July 2015 will be disregarded, and NOT evaluated.**

### 5. The Prize

The Winner will be invited to present his/her design at the final conference where PROteINSECT final results are presented.

## 6. Participation

Any participant must be a Student (University, Technical college, Undergraduate or Post graduate) who is enrolled during the academic year 2014/2015 at an institution inside the EU or a PROteINSECT Partner Country (China, Mali, and Ghana). The name and contact of a faculty advisor must be provided. PROteINSECT reserves the right to contact the advisor for verification purposes. A proof of enrolment may be requested.

The competition is open to individuals but teams of up to three are possible. An individual may participate in only one team. Each team may only have one entry. In case the winner is a team, only one team member will receive a travel grant to present the project.

Student Members may ask the Design Competition Committee clarifying questions (Q&A) about the rules or procedures by email ([competition@proteinssect.eu](mailto:competition@proteinssect.eu)). All questions and their associated answers will be posted on the PROteINSECT Engineering Competition website (<http://www.proteinssect.eu/index.php?id=competition>) and will be available for anyone to review. The answers and decision of the Design Competition Committee are final.

To sign up fill out the registration sheet available at:

<http://www.proteinssect.eu/index.php?id=competition>

Check up on the Q&A regularly for guidance!

To participate students will be asked to submit, via the **registration sheet**, the following data that will only be used for the purpose of carrying out the competition, unless expressly indicated otherwise in these terms, and always in accordance with data protection law<sup>3</sup>:

<b>Title of Design Entry</b>			
<b>Student Information</b>			
Name (M/F)			
Address			
City, Zip, Country			
Phone			
Email			
School/Institution			
<b>Faculty Advisor Information (required)</b>			
Name			
Institution			
Phone			
Email			

By entering their names above, students **agree to allow PROteINSECT to use any entry images and designs submitted to the competition in print/electronic publication.**

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<sup>3</sup> PROteINSECT will use your personal data exclusively for competition purposes. Personal data will neither be forwarded to third parties nor used for other purposes. All activities comply with the Austrian privacy policy and data processing regulations and with the guidelines of the European Union.

## 7. Evaluation:

An independent Evaluation body will be set up consisting of experts in insect production and processing.

- Each design will be evaluated by three Evaluators<sup>4</sup>
- Each design will be evaluated according to 3 criteria
- Technical feasibility 7 Points
- Energy demand 7 Points<sup>5</sup>
- Novelty 1 Point

## 8. The evaluation guidelines for the Evaluators:

Evaluators will be scoring the designs based on 3 Criteria. The maximal points per sub criteria are given below.

### Technical feasibility

- Is the design technically feasible (Y/N) 3 Points
- Is a scale-up to 10 tonnes per day possible (Y/N) 2 Points
- Is the process fully automatic (Y/N) 2 Points

### Energy demand

- Is the energy demand calculation valid and feasible<sup>6</sup> (Y/N) 3 Points
- Is the energy demand:<sup>7</sup> 3 Points
- Is the design also suitable for a tropical climate (Y/N) 1 Point

### Novelty

- Does the design propose a novel methodology (Y/N) 1 Point

## 9. Ranking

- The awarded score will be the average score of the three evaluators.
- Project designs will be ranked solely on the awarded score.
- The project with the highest score wins
- In case of a tie the project with the higher technical feasibility wins.
- If this does not produce a winner, three new evaluators will rank the tying designs.

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<sup>4</sup> The complete list of Evaluators will be made available after the selection is completed. It will not be disclosed which Evaluators evaluated which Submission. All Evaluators sign a NDA.

<sup>5</sup> including, if applicable, energy for 12 month storage of the maggots

<sup>6</sup> 1 Point is to be deducted if “indirect energy sources” are tapped, such as excess heat from a near-by factory.

<sup>7</sup> Solar energy can be disregarded

## Rights Granted to PROteINSECT by Students / Participants

By taking part in this competition **all students** will be deemed to have accepted and declare to be bound by terms and conditions as set out below. All entry instructions form part of these terms and conditions.

I understand that participating in the competition is my own responsibility, and that any and all cost for preparing and handing in my entry will be borne by myself. PROteINSECT shall not be responsible for any late, lost or misdirected entries. **I release in full Eutema GmbH as the representative of the PROteINSECT<sup>1</sup> consortium**, all of their **project partners**, subsidiaries, affiliates and any parent entities, together with their respective officers, directors, employees, representatives, agents, insurers, successors and assignees **from any and all liability**, damages or loss of property, any injury to the participant, or the participant's death, arising directly or indirectly out of my participation for any purpose in the competition, including **travelling to and participating** in the award ceremony.

**All entries submitted**, including any selected as award winning entries, **remain the property of the authors**, subject to the conditions set out below.

By entering the award, **I accept** that PROteINSECT may publish and disseminate the entry as submitted, in analog or digital form on the PROteINSECT website, in newsletters, brochures, publications, and other formats and consent to such use, without compensation. Otherwise, I will retain the copyright and any other intellectual property rights in the submitted entry, insofar as such rights in the entry exist, and any rights of commercial exploitation resulting therefrom.

In addition to the above, should my entry be selected as the **winner**, except where legally prohibited, I **grant permission** to PROteINSECT for the use of my name, picture, photo, biographical information statements (i.e. Name, Name of School/University, country, age) , as indicated in the participation sheet, and of the entry itself, in whole or in part, at any time, for advertising or promotional purposes, without additional consent or compensation, in any and all media worldwide without notice, review or approval.

I further **grant** PROteINSECT and its project partners [THE SECRETARY OF STATE FOR ENVIRONMENT, FOOD AND RURAL AFFAIRS (FERA) United Kingdom; Eutema GmbH, Austria; CAB INTERNATIONAL, United Kingdom; NUTRITION SCIENCES NV, Belgium; KATHOLIEKE UNIVERSITEIT LEUVEN, Belgium; MINERVA HEALTH & CARE COMMUNICATIONS LTD, United Kingdom; GRANTBAIT LIMITED, United Kingdom; GUANGDONG ENTOMOLOGICAL INSTITUTE, China; Huazhong Agricultural University, China; FISH FOR AFRICA - GHANA, Ghana; INSTITUT D'ECONOMIE RURALE, Mali; THE UNIVERSITY OF STIRLING, United Kingdom] an unlimited, worldwide, perpetual, royalty free, irrevocable, **non-exclusive license to use, reproduce and copy, communicate to the public, distribute, make available, modify, adapt, publish and display my entry, without compensation** or attribution, restriction on use, or liability. I agree that I will not receive any additional compensation for the use of my entry by PROteINSECT over and beyond the award of the prize.

I agree to confirm my consent in writing to such use where required also outside the present document.

I **acknowledge** that all federal, state and local taxes associated with the acceptance of any award are solely the **award winner's responsibility**.

I understand that this competition will be governed by the **laws of Austria**.

**The decision of the jury is final**, and an appeal against the jury's decision, or recourse, to courts, administrative or arbitration bodies, **is excluded**.

I hereby **confirm** that as of the date of this granting of rights declaration, I am **over the age of eighteen (18) years**, my submission is original and entirely my work and that I have read, understand, and freely agree to the foregoing.

If one or more of the above terms of participation or declarations should be void, this shall not affect the remaining content or the validity of my declaration. Void stipulations shall be substituted by provisions that are valid and show the nearest approach to the purpose of the original provision or declaration.

**UNDERSTOOD AND AGREED:**

Name (print): \_\_\_\_\_ Date: \_\_\_\_\_

Name (signature): \_\_\_\_\_

Address: \_\_\_\_\_

(if there is more than one participant in a team, all are required to sign the form)

**UNDERSTOOD AND AGREED:**

Name (print): \_\_\_\_\_ Date: \_\_\_\_\_

Name (signature): \_\_\_\_\_

Address: \_\_\_\_\_

**UNDERSTOOD AND AGREED:**

Name (print): \_\_\_\_\_ Date: \_\_\_\_\_

Name (signature): \_\_\_\_\_

Address: \_\_\_\_\_