Protein transition in animal feeding

Summer School

PIEVE TESINO/1-6 AUGUST 2022

SUMMER SCHOOL: PROTEIN TRANSITION IN ANIMAL FEEDING

La Summer School, tenuta in italiano e in inglese, riguarda gli aspetti principali e più recenti della nutrizione proteica degli animali da reddito, con un approccio teso a considerare le risorse proteiche in relazione ai differenti sistemi zootecnici.

The Summer School, held in Italian and English languages, has been conceived to address the main and recent topics of the protein nutrition in farmed animals. The approach encompasses different protein sources contextualized within the main animal production systems.

Informazioni/information
Internet

Contatti/contacts
proteins@unitus.it
## Programma del corso/Course program

### DAY 1: 1st Aug

- **Morning:** Participants arrival
- **Afternoon:**
  - 14:00-16:00 **Pier Paolo Danieli**. Greetings & introduction of the Summer School (IT/EN)
  - 16:00-18:00 **Lea Pallaroni**. Feed sector overview: market and legislation (IT/EN)
- **Evening:**
  - 21:00-22:30 **Workgroup 1**. Presentation of the teamwork

### DAY 2: 2nd Aug

- **Morning:**
  - 09:00-11:00 **Thomas Spranghers**. Black soldier fly and Yellow mealworm: the most promising insect species for mass production (EN/EN)
  - 11:00-12:00 **Daniel Murta**. Insect sector, from bench to industry – the Black Soldier Fly case (on line) (EN/EN)
  - 12:00-13:00 **Daniel Murta**. Insect protein, from novelty to commodity (on line) (EN/EN)
- **Afternoon:**
  - 14:00-15:00 **Laura Gasco**. Factors to consider when using insect-derived products in animal feeds (IT/EN)
  - 15:00-16:00 **Matteo Ottoboni**. Insects reared on selected/enriched substrates for designing feed specialties (IT/EN)
  - 16:00—18:00 **Ilaria Biasato**. Insect-based products in poultry and pig nutrition: current scenario and future perspectives (IT/EN)
- **Evening:**
  - 21:00-22:30 **Workgroup 1**. Presentation of the teamwork

### DAY 3: 3rd Aug

- **Morning:**
  - 09:00-11:00 **Mercedes Martin Pedrosa**. Bioactive compounds in pulses (EN/EN)
  - 11:00-13:00 **Riccardo Primi**. Underutilized protein sources for livestock feeding: pros and cons of their re-evaluation (IT/EN)
- **Afternoon:**
  - 14:00-16:00 **Concetta Maria Messina**. Bioactive compounds in microalgae (IT/EN)
  - 16:00-18:00 **Antonio Jesus Vizcaino**. Microalgae in animal nutrition (EN/EN)
  - 18:00-19:00 **WG 1**. Presentation of the teamwork
- **Evening:**
  - 21:00-22:30 **Workgroups 2**. Presentation of the teamwork

### DAY 4: 4th Aug

- **Morning:**
  - 09:00-11:00 **Giuliana Parisi**. Protein sources and product quality of farmed fishes (on line) (IT/EN)
  - 11:00-13:00 **Mariangela Caroprese**. Use of algae in ruminants feeding: effects on production and animal welfare (on-line) (IT/EN)
- **Afternoon:**
  - 14:00-15:00 **Marco Cullere**. Camelina by-products as livestock feed ingredients: scientific results (on-line) (IT/EN)
  - 15:00-17:00 **Brett Glencross**. Fish by-products (EN/EN)
  - 17:00-18:00 **Jack Grushcow**. Camelina by-products use in livestock feeding (on-line) (EN/EN)
- **Evening:**
  - 18:00-19:00 **WG 2**. Presentation of the teamwork
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<tr>
<th>DAY</th>
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<th>EVENING</th>
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<tr>
<td>5th Aug</td>
<td>9:00-13:00 <em>Francesca Tulli</em> — <em>Concetta Maria Messina</em>. Technical visit to the Istituto S. Michele all’Adige (acquaculture)</td>
<td>14:00-18:00 <em>Manuela Renna</em>. Technical visit to the San Giuliano dairy farm.</td>
<td>Participants departure</td>
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<td>6th Aug</td>
<td>8:30-9:45 <em>Fabio Brambilla</em>. Fish feed formulation: basic concepts and future perspectives (IT/EN)</td>
<td>18:30-19:30 <strong>WG 3.</strong> Presentation of the teamwork</td>
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<td>9:45-11:00 <em>Alessandro Galli</em>. How to design a feed: dos and dont’s (IT/EN)</td>
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<td>11:00-13:00 <em>Youssef A. Attia</em>. Method of improving protein utilization for poultry (on line) (EN/EN)</td>
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Sede/Venue
CSALP — Centro Studi Alpino (Università della Tuscia)
Pieve Tesino (TN), Via Rovigo 7
Informazioni e come raggiungere il CSALP: https://www.unitus.it/it/dipartimento/csalp/chi-siamo/articolo/chi-siamo
Information and how to get CSALP: https://www.unitus.it/en/dipartimento/csalp/chi-siamo/articolo/chi-siamo

COMITATO ORGANIZZATORE/ORGANIZING COMMITTEE
Pier Paolo Danielli — University of Tuscia
Laura Gasco — University of Turin
Manuela Renna — University of Turin
Federico Manganello — University of Tuscia

COMITATO SCIENTIFICO/SCIENTIFIC COMMITTEE
Fulvia Bovera — University of Napoli Federico II
Pier Paolo Danielli — University of Tuscia
Laura Gasco — University of Turin
Francesca Tulli — University of Udine
Rosaria Marino — University of Foggia
Alessandra Roncarati — University of Camerino
Matteo Ottoboni — University of Milano