

## **Training program in Entomology (special. Diptera Syrphidae), emphasis on collection management and bioindicator used**

### **Description of project:**

Syrphidae, commonly called hoverfly, is a large family of Diptera: more than 6000 species has been described in world fauna. Hoverflies are well known for imitating wasps, bees or bumblebees. Syrphid adults can be particularly common in field and they can be easily see on flowers looking for nectar and pollen. Their larvae show a large differentiation in trophic habits: some are predators mainly on aphids, some phytophagous, some are saprophagous in eutrophic water or in dead woods. Aphidophagous Syrphids are considered as one of the main predator in controlling these pests: this explain the large interested developed around the presence of this insects in agroecosystems. Several researches underline the importance of Syrphidae as bioindicators in environmental evaluation and since '90 a method, called Syrph the Net, has been developed to standardize the use of hoverflies as bioindicators.

### **Duration of training:**

1 week

### **Training period:**

July 2014 (exact dates to be defined)

### **Target Audience:**

MSc students, PhD students as well as early career researchers

### **Practical experiences:**

- Sampling and preserving techniques
- Identification of specimens to genera and species
- Hoverfly rearings
- Application of Syrph the Net in environmental evaluation
- Geospatial management of data with software ESRI ArcView

### **Lectures:**

- General information about Syrphidae
- Morphology of adult and larvae of Syrphidae
- The use of bioindicator to evaluate habitat state of conservation
- Hoverfly as bioindicator with particular reference to Syrph the Net
- The rule of Syrphidae in aphid control.

### **Notes:**

Maximum number of trainees: 10

A minimum of 4 participants is required.

### **Name of mentor / supervisor:**

Daniele Sommaggio – Carla Corazza

### **Institution:**

Museo Civico di Storia Naturale di Ferrara

Stazione di Ricerca Ecologica

Via De Pisis, 24, I-44100 Ferrara, Italy

### **Registration fee:**

220 Euros

Participants are responsible for their own travel, accommodation and subsistence expenses.

### **Registration:**

Deadline for registration: 31 January 2014

Participants will be notified by 20 February 2014 whether accepted to the training.

Click [here](#) for the registration form.

### **Payment:**

Payment details and deadline will be provided upon acceptance to the training.