VI CONGRESO IBERICO DE ENTOMOLOGIA

XIII Jornadas de la AeE
VII Congreso de la Spen

Madrid, 26-30 de Septiembre de 1994

PROGRAMA Y RESUMENES

Dpto de Biología (Zoología). Universidad Autónoma de Madrid
Dptos de Biodiversidad y Biología Evolutiva y Colecciones
(Sección Entomología)
Museo Nacional de Ciencias Naturales

V.J. MONSERRAT & M.D. MARTINEZ: Evidencias sobre la mirmecofilia en las larvas de Nemopterinae (Neuroptera, Nemopteridae).

I. SANMARTIN, J.M. LOBO & F. MARTIN PIERA: Observaciones preliminares sobre el ritmo de actividad diaria en escarabeidos coprófagos telecópridos (Coleoptera, Scarabeidae).

L. SILVA & J. TAVARES: Phytophagous insects associated with endemic, macaronesian and exotic plants in the Azores.

10.30-10.45 Descanso
10.45-11.45 Comunicaciones orales: ENTOMOLOGIA APLICADA (Sesión 1)

A.M. SIMÕES, A.M. MEXIA & J.P. CARVALHO: Os parasitóides na luta contra *Popilia japonica* (Coleoptera, Scarabaeidae).

L. FALP, V. VIEIRA & J. TAVARES: Some aspects on the reproduction of *Ephestia kuehniella* (Lepidoptera, Pyralidae) under mass rearing conditions.

M.A. FERREIRA & M.M. CARMONA: Acarofauna do tomateiro em Portugal.

L. OLIVEIRA & J. TAVARES: *Apanteles militaris* (Hymenoptera, Braconidae) parasitic capacity on *Mythimna uniplucta* (Lepidoptera, Noctuidae).

11.45-12.15 Descanso y café
12.15-13.30 Comunicaciones en carteles
13.30-15.00 Comida
15.00-16.30 Comunicaciones orales: ENTOMOLOGIA APLICADA (Sesión 2)

J. TAVARES, F. RIBEIRO, L. OLIVEIRA & V. VIEIRA: Temperature and relative humidity changes during mass production of *Ephestia kuehniella* (Lepidoptera, Pyralidae).

M. DE LOS MOZOS PASCUAL: Influencia de algunos factores bióticos sobre la infestación por brúquidos en el cultivo de la lenteja (Coleoptera, Bruchidae).

V. VIEIRA, L. FALP & J. TAVARES: Epigenetic variability of *Ephestia kuehniella* (Lepidoptera, Pyralidae) under mass rearing conditions.

J.A. QUARTAU, F. RIBEIRO & C. CACHADO: Monitorização de *Ficocyba ficaria* (Homoptera, Cicadellidae) em diferentes variedades da figueira em Portugal.

Temperature and relative humidity changes during mass production of *Ephestia kuehniella* (Lepidoptera, Pyralidae)

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J. TAVARES, F. RIBEIRO, L. OLIVEIRA & V. VIEIRA
Universidade dos Açores, Depto. de Biologia
9500 Ponta Delgada
AÇORES, PORTUGAL

This study was undertaken to determine the change of the temperature and relative humidity in the life cycle of *Ephestia kuehniella* Zeller (Lep., Pyralidae) under mass production conditions. A set of 24 cages, disposed over each other (2.5 cm apart) were introduced in a climate chamber (200 cm^3), for 41 days. Each cage (6720 cm^3 volume) had 10000 individuals during their pre-imaginal development. The climate chamber conditions were the following: 20.33 ± 1.2°C, 63.56 ± 8.7% RH and 16L:8D (the first 25 days) and 21.4 ± 0,9 °C, 70.5 ± 15% RH and 16L:8D (the next 16 days). All cages presented a considerable temperture increase, mainly between the 25th day and the adults emergence. The maximum change in teh termic amplitude (8°C), due to the insect, was observed in the set center cages. On the other hand, relative humidity decresed with temperture augmentation in each set, reaching 20% (center cages) and 10% (extreme cages).

In a Biotecnological context, the consequences of temperature and relative humidity changes are discussed.