IN THIS ISSUE..

Interview with Ms. Watchreeporn Orankanok p.3
Trinational Moscamed Programme Reviewed by TAP p. 4
The BioMimic® Scientific and Technological Cluster p. 5
A Survey of the Economically Important Fruit Fly p. 6
Fruit Fly Exclusion Netting p. 7
Tephritid Publication Dashboard p. 8
New Book Announcement p. 9
Obituary p. 10
Coming Events p. 11
Newsletter Back Issues, Proceedings p. 14
At the time I am drafting this message, our humanity is in the relentless battle against the ruthless COVID-19 pandemic, which has taken away more than 35,000 lives and has infected more than 700,000 people in over 200 countries and territories. I pray for the safety of all the people. I pray that we get through this coronavirus crisis together.

My name is “Watchreeporn” — a name so long that some of my colleagues told me that they had to practice pronouncing it for a month. I grew up in a small village in Thailand, which is 50 km away from the center of the capital city. I went to Kasetsart University in Bangkok, which was the first and the most well-known university for agricultural science in the country. During those 4 years, I joined the Kasetsart Student Volunteer Group — a volunteer group for students who share the goal of improving the opportunity of children in remote areas.

I am honored by the editorial team of Fruit Fly News (FFN) to grant me this opportunity to share my story — a story of a fruit-fly worker in Thailand who started her career as a plant pathologist, and then changed direction to be the Head of a fruit-fly project. And who has belonged to the fruit-fly community ever since.
Guatemala-Mexico-United States

Trinational Moscamed Programme

Reviewed by Technical Advisory Panel

The Mediterranean fruit fly-free status of Mexico and northern Guatemala has recently been threatened by increasing detections of Medfly, *Ceratitis capitata*, in an area along the southern border with Guatemala and into the state of Chiapas, Mexico. This presents a serious and immediate threat to the horticultural industries of Mexico and Guatemala, and, in the mid-term, to the USA horticultural industry as well.

The Governments of Guatemala, Mexico and the USA established the Regional Moscamed Programme.

[More..](#)
The BioMimic® Scientific and Technological Cluster (BioMimic® Cluster henceforth) was conceptualized, designed, built and inaugurated between 2010 and 2015. It is located contiguous to the Botanical Garden of the Instituto de Ecología, A.C. (INECOL henceforth) in the state of Veracruz, México.

It was conceived as a place to conduct cutting edge science aimed at finding solutions to pressing challenges facing society in the area of biological sciences, particularly agriculture and ecology, all inspired by nature (i.e., biomimetism). It encompasses ca. 17,000 m² of new scientific and technological infrastructure, in the middle of newly acquired five hectares of land, originally cow pastures and a highly degraded cloud forest patch. The BioMimic® Cluster hosts INECOL’s “Fruit Fly Research Group” founded in 1990, among other research groups and facilities that will be described in what follows. The Cluster encompasses five buildings, plus housing facilities for short stays, conservation areas and a virtual center for the teachings on water that includes a natural spring, artificial pond and rain catchment areas (Figure 1).
A SURVEY OF THE ECONOMICALLY IMPORTANT FRUIT FLY SPECIES OF THE GENUS *Anastrepha*

By Enrique Antonio-Hernández & M J García-Ramírez

This poster is the result of the research on *Anastrepha* species diversity and their host plants in the isthmus of Tehuantepec, Oaxaca, Mexico.
Queensland Fruit Fly attacks a wide range of fruits and fruiting vegetables, leaving them inedible. Managing QFF in your garden can be very challenging. However, there are various strategies you can implement to protect home-grown produce from infestation.

This fact sheet outlines how to use insect nets to protect your produce from fruit fly. The use of a physical barrier can stop QFF from laying eggs in your fruit. The first step to protecting your fruit starts in winter when it is important to prune trees to about 2 metres high and less than 2 metres wide, so nets can fit over them.
From 1980 to March 2020, there are 6923 publications related to tephritid fruit flies and 106,614 citations. The table below shows the top 5:

<table>
<thead>
<tr>
<th>Authors</th>
<th>Organizations</th>
<th>Countries</th>
<th>Journals</th>
<th>Discipline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluja M (187)</td>
<td>USDA (1442)</td>
<td>USA (2752)</td>
<td>Journal of Economic Entomology (784)</td>
<td>Entomology (4,470)</td>
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<tr>
<td>Vargas RI (126)</td>
<td>Universtity of California system (298)</td>
<td>Australia (575)</td>
<td>Florida Entomologist (408)</td>
<td>Ecology (549)</td>
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<tr>
<td>Prokopy RJ (109)</td>
<td>University of Hawaii system (291)</td>
<td>Brazil (560)</td>
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<td>Zoology (493)</td>
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<td>Liedo P (104)</td>
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<td>Agronomy (458)</td>
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<td>Shelly TE (96)</td>
<td>Universidad de Sao Paulo Brazil (207)</td>
<td>Peoples R China (361)</td>
<td>Entomologia Experimentalis et Applicata (219)</td>
<td>Biochemistry molecular biology (409)</td>
</tr>
</tbody>
</table>

The figure shows the citations’ trend over the past 40 years.

From 1980 to 2020 in 2-year increments

From a search in the Web of Science using their core collection, which are papers published in peer reviewed scientific journals indexed in the Journal of Citation Reports (JCR). This collection includes today 11,896 indexed journals.
Juan F. Barrera

Beyond IPM: Introduction to the Theory of Holistic Pest Management

Series: Sustainability in Plant and Crop Protection

More..

Pablo Montoya, Jorge Toledo and Emilio Hernández (Editors)

Moscas de la Fruta: Fundamentos y Procedimientos Para su Manejo

[Principles & Practice of Fruit Fly Management]

More..
Gordon Hooper studied entomology under Fredrick Athol Perkins at the University of Queensland (UQ) in the early 1950s, being awarded his B.Sc. in 1955. One of his classmates was the late Merv Bengston who went on to become head of the Entomology Branch of the Queensland Department of Primary Industries. Gordon’s first appointment was as a field entomologist with the Queensland Department of Agriculture in Toowoomba. There he worked with Dr Alan May, the then authority on Australian fruit flies. Perhaps this experience led him to return to fruit fly entomology in later years.

After completing an M.Sc. at UQ in 1959, Gordon went on to do his PhD under A.W.A. Brown at the University of Western Ontario, Canada. A.W.A. Brown was an Englishman who studied insect physiology under V.B. Wigglesworth in London, and after moving to Canada became a world leader in the genetics and biochemistry of insecticide resistance in insects. Gordon’s dissertation was entitled “Insecticide resistance in the root-maggot *Euxesta notata* (Wied.)”, with the PhD awarded in 1964.

Consequently, when Gordon returned to UQ as a lecturer in entomology, he was enthusiastic about teaching and research in pest management and insecticide resistance. In 1965 he developed the course “Economic Entomology” where students had to identify all pest insect species in Queensland, develop a basic knowledge of their biology, and know the then current methods of pest management. One class in 1966 had 24 students and most obtained positions in Departments of Agriculture around Australia. A version of this unit was still being taught into the 1980s, as ET 202 “Introductory Entomology for Agriculture”.

* Thanks so much to Murray Fletcher for providing the photos of G. Hooper.
We are in this together

Dear colleagues,

The past few weeks have seen unprecedented moments as coronavirus (COVID-19) continues to strengthen its grip on the world. During a crisis like this, our thoughts are with students and staff, and with you and our global community of tephritid fruit fly workers and supporters – all of whom will have been affected, directly or indirectly, by the virus’s far-reaching effects.

The health and safety of you, your family, and your friends is a key concern right now. Distressing news fills our screens day by day, and no doubt your inbox is bombarded with concerned messages. Although it may feel difficult to stay positive at such a time, crises often have a way of highlighting the best in humanity as we collectively battle this invisible enemy.

In this time of uncertainty, several events will have to be put back until a later date. Visits to families and colleagues will have to wait. However, we do thanks all the organizers for their efforts and we keep hope to meet soon!

The 4th TEAM MEETING
La Grande-Motte, France
October 4 - 8, 2020
Focal point: Ms Valérie Balmès

Change in Deadlines !
Announcement

11th International Symposium on FRUIT FLIES of Economic Importance
15-20 May 2022 • Sydney • Australia
Focal point: Chronis Rempoulakis
San Miguel de Tucumán, 12 March 2020

Rescheduled to 3 - 7 November 2020!

TWWH Community

As you were informed, with much regret we had to postpone our long-awaited congress. With the advances of the Covid-19 and the recent declaration of pandemic by the WHO, measures are imposed to restrict movement of people and the organization of meetings, including conferences. This decision responds to the need to join the worldwide effort to minimize the impact of this new disease.

Today we would like to contact all those involved in this meeting to inform that the firm intention is that the congress takes place as soon as the situation improves.

To the Colombian Agricultural Institute (ICA) and all the Colombian institutions that support this meeting: Asohofrucol, the National Fund for Horticultural Development, SOCOLEN and the Colombian government, we want to express our sincere thanks. It is an honor for us that Colombia is our host country. We fully understand the decision made for the health of all.

We thank the attendees for your decision to participate and we hope to continue counting on you. We are aware of the efforts you make to attend these conferences. Many of you have limited funds and even many of you must use personal funds. Our special recognition to the students and young researchers who made a great effort to participate.

We also want to express our gratitude to the institutions, specially IAEA, and companies that with their financial support promote the meeting. We would like to continue counting on your support.

Thank you to the TAAO and TEAM communities that followed the events of the last days and supported us in the decision taken.

We hope everyone understands that while we will not be exchanging our experiences and making progress in solving problems caused by fruit flies next week, we will be seeing each other soon.

Finally, we would like to take this opportunity to express our deepest and most sincere thanks to Dr. Emilio Arévalo-Peñaranda and to the entire team at ICA for the excellent work they have done and for the high degree of commitment with which they have undertaken this task. This unexpected situation has only shown high professionalism and quality of work; something that is highly valued by all of us. Our warmest regards.

María Teresa Vera, Dina Orozco, Jorge Toledo, Ken Bloem, Eric Jang, Wilda Ramírez, Diego Segura, Janisete Silva, Pablo Liedo, Walther Enkerlin, Jair Virginio

TWWH Steering Committee

Meeting Focal Point: Emilio Arévalo-Peñaranda
Postponement of the 2nd TAAO Symposium in Beijing

As always, it is very difficult to make the decision to postpone an event. Having spent the past year preparing for the event with several event partners, the organizers are disappointed not to be able to host the 2nd TAAO meeting this summer, and made the tough decision to postpone the event due to COVID-19 pandemic.

Today, the second TAAO event was pushed to the first quarter of next year (in Q1, 2021).

Original Event Date: **August 18-21, 2020**
Postponement Announcement Date: **April 20, 2020**
New Event Date: **The first quarter of 2021**

See the emailed *announcement* from the TAAO Chair.

Focal point: **Prof. Li Zhihong** lzh@cau.edu.cn

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TAAO
Tephritid workers of Asia, Australia and Oceania
Coming events

**XXVI International Congress of Entomology**
**Helsinki, Finland**
Original Event Date: **19-24 July 2020**
New Event Date: **18-23 July 2021**

**Wolbachia 2020**
**Crete, Greece**
Original Event Date: **5 - 10 July 2020**
New Event Date: **26th June - 2nd July, 2022**

**PREVIOUS FRUIT FLY MEETINGS AND PROCEEDINGS**

**Newsletter BACK ISSUES**
- FFN
- TEAM
- TAAO

**Already a member?**
*Keep your TWD profile updated to stay connected!*

**New member?**
Join the Tephritid worker’s group of your area and be heard!