

**EPG training course** (satellite event of HPIS 2022, 7-9 December)  
December, Mo.12-We. 14, Melbourne, Australia

*Local Organizers:*

Piotr Trebicki & Isabel Valenzuela (Australia)

*Program organizers:*

Freddy Tjallingii (Netherlands), Elisa Garzo & Alberto Fereres (Spain)

Dear colleague,

We are happy to announce a new EPG training course. Though scheduled as a ‘satellite’, there is no formal relation between these two events. The course will be held at La Trobe University Campus, Bundoora, AgriBio Centre (close to Melbourne).

*What is the EPG (Electrical Penetration Graphs) technique?*

*A plant and a (mostly) Homopteran insect are made part of an electrical circuit by using a soil electrode for the plant and gluing a very thin gold wire to insect’s dorsum. Upon plant penetration by the insect, electrically caused waveforms indicate tissue positions of the stylet tips and insect activities (mechanical movements, ingestion, or salivation). Typically, 8 replicates can be recorded for periods up to 8h (more experimental configurations are possible).*

*EPG recording is commonly used to study plant-insect interactions as involved plant resistance, host plant recognition, plant pathogen transmission, electrophysiological aspects of plant defenses, etc.*

Course program: see attachment. This includes lectures on backgrounds and applications (morning sessions) and practical training (afternoon sessions) in Faraday cage use, wiring and mounting insects and plants, monitored signal recording (data acquisition), signal analysis, data processing, and directions for statistical analysis.

There will be a maximum of 16 participants due limited equipment and lab facilities, and assistance. When more people sign up a waiting list will be used.

Participants fee: AUS \$500

Registration deadline: November 15

Registration and further information:

Please reply to this e-mail to both local organizers

[Piotr.trebicki@agriculture.vic.gov.au](mailto:Piotr.trebicki@agriculture.vic.gov.au)

[Isabel.valenzuela-gonzalez@agriculture.vic.gov.au](mailto:Isabel.valenzuela-gonzalez@agriculture.vic.gov.au)

This information is also available on

<https://www.epgsystems.eu/events-downloads-presentations>

Best regards,

The organizers.