![Royal Entomological Society — Special Interest Group Behaviour]

Behaviour SIG 2026
Emerging themes: Novel techniques and approaches in insect behaviour studies

Programme

09:00   Registration

09.30   **Welcome and Introduction**
RES Staff and Behaviour SIG Convenors

09:45   **KEYNOTE: Electric ecology and electroreception in arthropods**
Daniel Robert, University of Bristol

10:15   **Biotremology for pest management: New solutions for stink bugs and true bugs (Online)**
Samah El Moussaoui, University of Trento (C3A) & Fondazione Edmund Mach (FEM), Italy

10:30   **Novel, non-invasive monitoring of the nesting behaviours of the leafcutter bee *Megachile centuncularis* using continuous vibrational measurements**
Holly Bassett, Nottingham Trent University, UK

10:45   **Behavioural analysis of *Helicoverpa armigera (*Hübner) neonates on *Abelmoschus esculentus* trichomes: Quantifying the biomechanical challenge of plant surface defense (Online)**
Navin Kumar Ravi, Faculty of Agriculture, Annamalai University, India

11:00   *Refreshments and posters*

11:30   **Endophytic Entomopathogenic Fungi as Modulators of Plant Cues: A way to affect Insect Behaviour (Online)**
Aravinthraju Krishnamoorthy, Tamil Nadu Agricultural University, India

11:45   **Male and worker bumblebees differ in their sensory perception and avoidance of nectar toxins**
Jonathan Pattrick, University of Oxford, UK

12:00   **Down with the Queen? Do pesticides interfere with honeybee worker responses to queen mandibular pheromone?**
Zoe Hudson, University of Leeds, UK

12:15   **Application of Proboscis Extension Reflex (PER) assays for testing hoverfly learning and memory**
Mandela Fernández-Grandon, Natural Resources Institute, University of Greenwich, UK

12:30   **Innovative Strategies for Understanding Insect Olfaction at the Molecular Level**
David Withall, Rothamsted Research, UK

12:45   *Lunch*

13:30   **KEYNOTE: An underrated signal: atmospheric pressure as a driver of insect behaviour (Online)**
Diego Magalhaes, Luiz de Queiroz College of Agriculture, University of São Paulo, Piracicaba, Brazil

14:00   **Applications of x-ray Computed Tomography (CT) to study insect structure and behaviour (Online)**
Kamrun Suravi, Rothamsted Research, UK

14:15   **Energetic precision in action: quantifying the cost of complex behaviour in bumblebees (Online)**
Natacha Rossi, University of Sussex, UK

14:30   **Duration Discrimination in the Bumblebee** *(Bombus terrestris)*
Alexander Davidson, Queen Mary University of London

14:45   **Discussion**

15:00   *Refreshments and posters*

15:15   **Open-Air 3D Tracking of Tiny Pests for Sustainable Control**
Oakleigh Weekes, The University of Sheffield, UK

15:30   **Probabilistic Flight Path Tracking and Behavioural Inference of** *Bombus Terrestris*
Christopher Noroozi, University of Sheffield, UK

15:45   **How does landscape structure influence the learning flights of bumblebees?**
Michael Smith, University of Sheffield, UK

16:00   **Weather radar for insect monitoring and conservation**
Christopher Hassall, University of Leeds, UK

16:15   **Discussion**

16:30   **Finish**