



Royal  
Entomological  
Society

# Annual conference

Programme

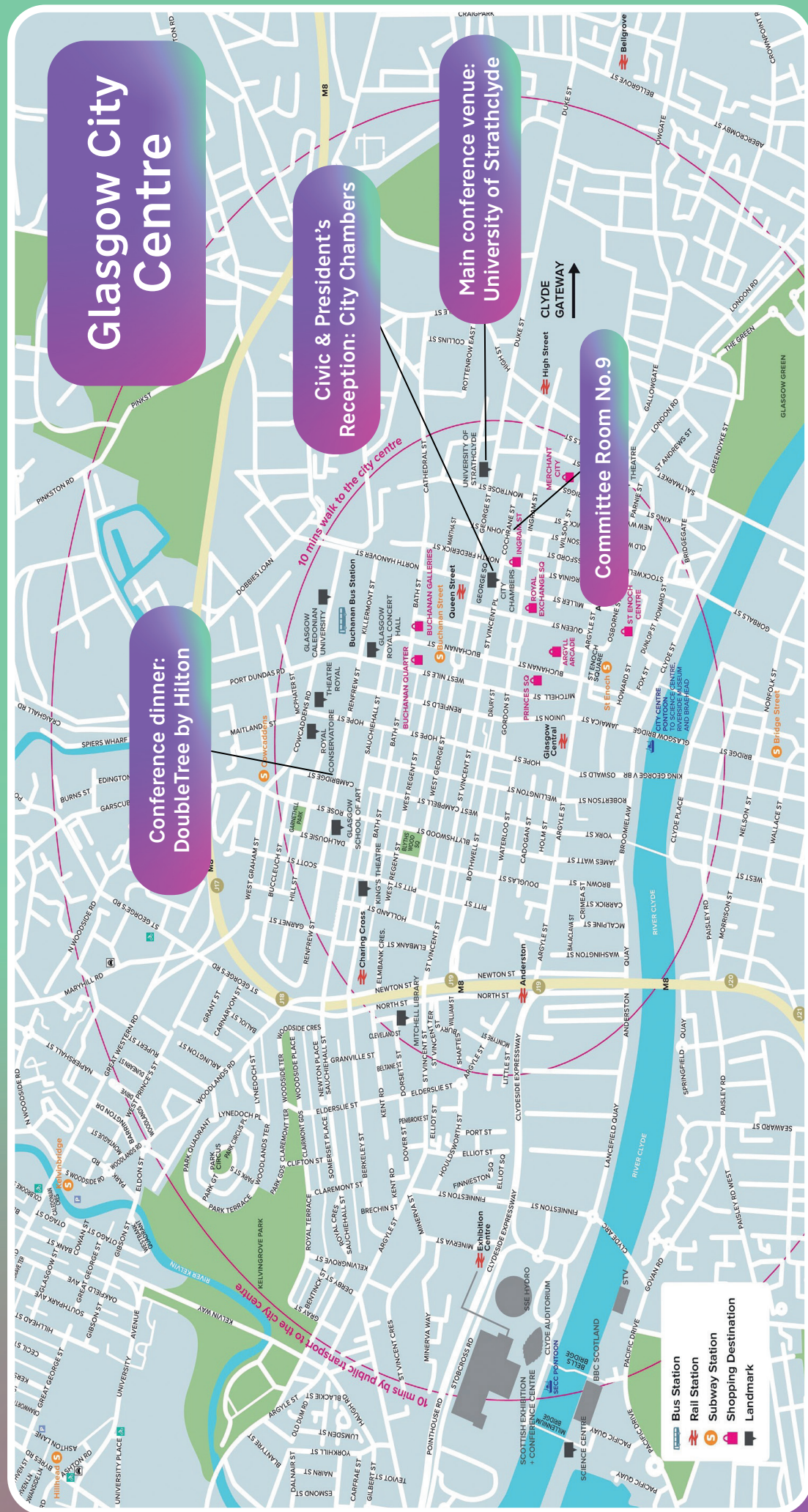


**Ento25**

9-11 September 2025

Technology & Innovation Centre,  
University of Strathclyde, Glasgow





OnTheWorldMap.com

Front cover image: 'Hold on' by Tyler Redford



This tachinid fly (believed to be *Athrycia cinerea*) was reared in the laboratory from the larva of a noctuid moth (bertha armyworm, *Mamestra configurata*) © Shelley Barkley 2014

## Discover...

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**Insect week**

**2026**

**The next Insect Week is 22-28 June 2026.**

Our annual celebration of insects engages the public with events, activities and resources.

We are looking for partners and collaborators to increase our impact.

If you are interested please contact Fran Sconce:  
[fran@royensoc.co.uk](mailto:fran@royensoc.co.uk)





# Welcome from the President

**On behalf of the Royal Entomological Society, I am excited to welcome you to Ento25.**

With over 300 delegates from academia and industry, this is one of our biggest meetings to date. Make the most of it – explore new research, share your own, meet fellow enthusiasts, and speak to the RES team who make all this happen. Huge thanks to everyone involved, especially Events Manager Fran Fleming.

We are particularly pleased to welcome winners of our Early Career Researcher Awards. Each year, the Editors-in-Chief of our journals select the best article led by an ECR and part of their prize is registration at Ento. Congratulations to this year's winners; please do look out for their talks in the programme.

Whether you're joining us in Glasgow or online, there's plenty to enjoy: four plenaries, 70+ scientific talks, six workshops, 14 exhibitors and some fantastic socials. RES members – don't miss the AGM on Tuesday (1–2pm) for updates, elections, and the announcement of our next President-Elect. If you're not yet a member, come and chat with us at the RES Hub.

On behalf of us all, my sincere thanks to our four Ento25 convenors from the University of Edinburgh, The James Hutton Institute, University of Glasgow and SASA (Science & Advice for Scottish Agriculture), who have put together this wonderful programme. It is as diverse as the insects we study – from taxonomy and endosymbionts to conservation, technology, and insect-society interactions.

We understand conferences can be intense – we welcome all delegates, and especially neurodiverse individuals, to take breaks when needed. A quiet room is available and sensory items are welcome. The RES is committed to dignity, respect, and an inclusive, safe environment for all.

I hope you enjoy three days of entomological immersion, and I look forward to meeting many of you.



*Jane Stout*

**Professor Jane Stout FRES  
RES President**



**Royal  
Entomological  
Society**



# Your Ento25 convenors



*Wasp on mushroom © Beverley Brouwer*



**Mauro Pazmino Betancourth | University of Glasgow**

Mauro Pazmino Betancourth is a research associate at the School of Biodiversity, One Health and Veterinary Medicine of the University of Glasgow. His research focuses on the use of new technologies for vector surveillance, specifically infrared spectroscopy with Artificial Intelligence to predict biological traits in different disease vectors to improve vector control programs. He is also interested in the role of temperature and humidity in mosquito ageing processes and how extreme environmental events impacts mosquito ageing rate, physiology and cuticle composition.

The University of Glasgow has been changing the world since 1451. It is a world top 100 university and a member of the prestigious Russell Group of leading UK research universities. The School of Biodiversity, One Health & Veterinary Medicine conducts world-changing research in the fields of animal health, biodiversity and the environment.



**Fiona Hight | SASA (Science and Advice for Scottish Agriculture)**

Fiona Hight is the Head of Virology and Zoology and Senior Entomologist at Science and Advice for Scottish Agriculture (SASA). Fiona has been part of the Rothamsted-led insect survey for over 25 years, monitoring aphid populations across Scotland from SASA's four fixed 12.2m traps; the first of which was established in the 1960s. This work contributes to research and advises growers on virus risk to crops in real time. Fiona's research and scientific advisory work also covers honey bee health, invasive species, and emerging threats to agriculture and the environment.

SASA is part of the Scottish Government, whose community of 100+ scientists and support staff provide scientific services and advice in support of Scotland's agriculture and wider environment. The original Scottish 'seed testing and seed potato classification' station was established in 1914, moving to the current laboratory and farm facilities just outside of Edinburgh in 2006.





Gail Jackson | University of Edinburgh

Gail Jackson is a Senior Lecturer in Ecological and Environmental Sciences in the School of GeoSciences at the University of Edinburgh. She is an agroecologist, particularly interested in ecologically based management strategies designed to increase agricultural sustainability. A particular focus is methods to enhance beneficial insect populations for both pollination and pest management services. Current pollination research is investigating the management of farmland hedgerows and field margins to enhance the floral resources available for pollinators. Further work investigating potential competition between managed honey bees and wild bees in the agri-environment is ongoing. In pest management, she studies how carabid beetles respond to sustainable farming practices, and how wildflower margins and intercropping may help maintain in-field parasitoid wasp populations.

The School of Geosciences conducts world-leading research and teaching. Its work addresses critical global challenges such as climate change, sustainability, natural hazards, and energy transition. The School informs policy, advances scientific understanding, and trains future experts to tackle environmental and societal issues at local and global scales.



Ali Karley | The James Hutton Institute

Ali(son) Karley is an agroecologist and the Head of the Ecological Sciences Department at the James Hutton Institute. Although starting life as a plant physiologist, Ali was enticed into plant-insect interactions early in her research career, studying top-down and bottom-up processes influencing aphid population dynamics. Now, she collaborates across scientific disciplines and stakeholders to develop, test and deploy practices that diversify crop systems, with the aim of improving insect pest control, reducing inputs and encouraging natural enemies.

The James Hutton Institute, formed in 2011 from the merger of the Scottish Crop Research Institute and the Macaulay Land Use Research Institute, is a world-leading independent scientific research organisation. Our pioneering science innovates and finds solutions for the challenges posed by the climate and nature crises on the sustainability and resilience of our crops, land, natural resources and communities. The breadth of our expertise in ecology, molecular biology, bioinformatics, socioeconomics and modelling, and our extensive glasshouse, field and farm facilities, allow us to tackle entomology research questions from lab to field and landscape scales.



New Scientist Live 2025

Would you like to share the importance of insect science with the general public and young people? The RES is looking for volunteers for an interactive RES stand at New Scientist Live taking place at Excel London on 18 - 20 October this year.

To apply, please scan this code to complete a short form by 21 September



Tuesday 9th		Wednesday 10th ENTO FASHION DAY!		Thursday 11th	
07:00		07:00 – 07:45 Conference Run			
08:00	Registration	08:15 – 09:15 Women in Entomology – Career Showcase		08:00 – 09:00 Moth Trap Opening	
09:00	09:00 – 10:15 Opening Ceremony & Plenary: Vojtěch Novotný	09:30 – 10:30 Plenary: Christiane Weirauch		08:30 – 09:30 Workshops	
10:00	10:15 – 10:45 Poster Session & Refreshments	10:30 – 11:00 Poster Session & Refreshments		09:45 – 11:15 Invasive Species & Community Ecology	09:45 – 11:15 Integrated Pest Management (2)
11:00	10:45 – 12:15 Innovation & Technology (1)	11:00 – 12:45 Insects & Society	11:00 – 12:45 SYMPOSIUM Insect Decline & Population Change	11:15 – 11:45 Refreshments & Meet the Speakers	
12:00	12:15 – 13:00 Lunch		12:45 – 13:45 Lunch & LGBTQ+ Drop-in	11:45 – 13:30 Plenary: Nicole van Dam & Conference Close	
13:00	AGM				
14:00	14:15 – 15:45 Innovation & Technology (2)		13:45 – 15:15 Workshops		
15:00	15:45 – 16:15 Refreshments		15:15 – 15:45 Refreshments		
16:00	16:15 – 17:45 Evolution, Genomics & Endosymbionts	16:15 – 17:45 Pollinators (2)	15:45 – 17:15 Natural History & Taxonomy	15:45 – 17:15 Integrated Pest Management (1)	
17:00			17:15 – 18:15 Wigglesworth Memorial Lecture: May Berenbaum		
18:00	18:00 – 19:30 Civic reception hosted by The Rt Hon The Lord Provost of Glasgow & RES Presidents' Reception		18:15 – 19:00 Poster Session & Pitch-a-Paper		
19:00					
20:00	19:30 – 22:00 EntOlympics		19:30 – 00:00 Conference Dinner & Cèilidh		
21:00					

Programme overview

KEY						
	Plenary Sessions	Oral Presentations	Workshops	Networking & Activities	AGM	Evening Socials
						Breaks & Refreshments





# Plenary speakers

We are delighted to welcome four internationally renowned entomologists who are delivering the plenary lectures throughout the conference.



**Wigglesworth Memorial Lecture**  
**Professor May Berenbaum Hon. FRES**  
**University of Illinois**

Wednesday 10 September,  
17:15 – 18:15 **Auditorium B**

**We are pleased to announce that Professor May Berenbaum, Hon.FRES, will be delivering The RES Wigglesworth Memorial Lecture. She will be presented with the Wigglesworth Medal for outstanding services to the science of entomology by RES President Professor Jane Stout.**

May is a professor of entomology at the University of Illinois and IGB faculty member. Her research focuses on chemical interactions between herbivorous insects and their host plants, and the implications of these interactions on the organization of natural communities and the evolution of species.

**Talk title: “So rich in insect life” were Wigglesworth’s woods – anthropogenic change and insect decline.**

*May Berenbaum’s Wigglesworth Memorial Lecture is sponsored by Bartlett Tree Experts*



**Vojtěch Novotný**  
**Director, Institute of Entomology at the Biology Centre, Czech Academy of Sciences and Professor of Ecology, Zoology Department, University of South Bohemia**

Tuesday 9 September, 09:15 – 10:15  
**Auditorium B**

Dr. Vojtěch Novotný is a tropical biologist studying the ecology of rainforests. He is based at the Biology Centre of the Czech Academy of Sciences in the Czech Republic, while also directing the New Guinea Binatang Research Center in Papua New Guinea.

Dr. Novotný’s research led to a better understanding of the diversity and ecological roles of insects in tropical rainforests, improving the estimates of global insect diversity and documenting complex relationships between insects and tropical vegetation.

Dr. Novotný has also developed rainforest conservation projects, working with indigenous communities in Papua New Guinea. He is promoting research capacity building in tropical countries. In Papua New Guinea, he is co-developing training programs for para-ecologists and students. Among the more adventurous projects, he has built a canopy crane for rainforest research in Papua New Guinea.

Dr. Novotný received his PhD from the Czech Academy of Sciences in 1993. He is serving as a Vice-President of the Society for Tropical Ecology, as an Editor of Ecology Letters, as a member of the European Research Council panel, and as a member of the Academia Europaea. In 2018, he received The Marsh Award for Insect Conservation from The Royal Entomological Society.

**Talk title: Insects and plants in tropical rainforests: the story of a turbulent relationship**

*Vojtěch Novotný’s Plenary Lecture is sponsored by Harper Adams University*



**Harper Adams University**



**Christiane Weirauch**  
**Department of Entomology, University of California, Riverside**  
Wednesday 10 September,  
09:30 – 10:30 **Auditorium B**

Christiane joined the faculty in Entomology at UCR in early 2007 as a systematic entomologist. Her interest is in systematic research of Heteroptera, with an emphasis on Reduviidae, Miridae, and Dipsocoromorpha, on combining morphological and molecular data, and on integrating our systematic knowledge with the evolution of exciting character systems (such as glands), the evolution of prey capture strategies in Reduviidae, and biogeography.

Christiane received a “Diplom” in biology from Eberhard Karls Universität in Tuebingen (working on the assassin bug fauna of a small nature reserve in Southern Brazil) and obtained her PhD from Freie Universität Berlin studying systematics of Reduviidae. She then moved to New York and became a post doc in the PBI (Planetary Biodiversity Inventory) project on Plant Bugs, where she focused on systematics of the mirid subfamily Phylinae.

**Talk title: From hunters to herbivores: systematics and evolution of assassin and plant bugs (*Hemiptera: Reduviidae, Miridae*)**



**Nicole van Dam**  
**Scientific Director at Leibniz Institute of Vegetable and Ornamental Crops /Professor at Friedrich Schiller University of Jena**  
Thursday 11 September, 11:45 – 12:45  
**Auditorium B**

Nicole M. van Dam is a chemical ecologist who aims to understand the molecular and chemical mechanisms underlying plant interactions. She holds a degree in biology from Wageningen University (1990) and a Ph.D. in natural sciences from Leiden University (1995), the Netherlands. After several postdoctoral positions in USA, Germany, and the Netherlands, and a full professorship at Radboud University, Nijmegen, she moved to Germany in 2014 to lead a research group at the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig.

Since 2022, she has been the scientific director of the Leibniz Institute of Vegetable and Ornamental Crops (IGZ) in Großbeeren and a full professor at the Friedrich Schiller University of Jena. Her research involves metabolomic and transcriptomic approaches to study how plants respond to herbivores both above and below ground. Her work has important implications for ecological theory and sustainable agriculture, particularly in the development of integrated pest management strategies.

**Talk title: What goes up, must come down? Interactions between above and below ground herbivores via induced plant defences.**

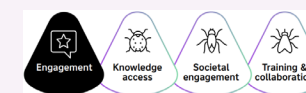
## Grand Challenges in Entomology

**Grand Challenges in Entomology is an ongoing project of the Royal Entomological Society to develop an agenda for the future of global entomology and the Society. It is inspired by the Entomological Society of America’s Grand Challenge Agenda for Entomology initiative.**

After a membership consultation and expert workshop, eleven themes were determined to group scientific priorities in insect science. This prioritisation exercise was led by Lynn Dicks at the University of Cambridge, to focus the Society’s global membership on the future of the entomological sector.

Our new Events Committee is responsible for championing specific themes of the Grand Challenges within the RES events programme, and the themes are also reflected throughout Ento25.

**Please scan the QR code for further information.**







# Workshops

Workshops will take place on **Wednesday 10 September** and **Thursday 11 September**. You are **welcome to attend any session, and most do not require advance booking. Simply come along to the one that interests you.**

**Please note:** Emily Carter's Insect Drawing Workshop on Thursday morning has limited capacity, so please sign up at the registration desk in advance.

## Wednesday 13:45 to 15:15

### Ethics Review for Entomological Research: Understanding the Status Quo and Future Directions

#### Conference Rooms 6 and 7

Facilitators: Meghan Barrett (Indiana University Indianapolis), Bob Fischer (Texas State University), Jonathan Birch (LSE), Jessica Stokes (RES)

This session explores current thinking on ethics in entomological research. It shares findings from a recent RES survey and outlines new guidance being developed by the Society. You will have the chance to reflect on best practice and discuss future approaches to ethics review in insect science.



Acorn weevil  
(*Curculio glandium*)  
on a stem of grass  
© Peter Paul Smith 2014

### Beyond the Research Paper: Engaging Wider Audiences with Entomological Research

#### Auditorium B and C

Facilitator: Keiron Derek Brown  
(Biological Recording Company)

With support from: Francisca Sconce (RES)

This interactive workshop draws on the entoLIVE programme to explore how researchers can reach wider audiences. We will discuss how to identify and engage with stakeholders, build effective partnerships, and make your research more accessible and relevant to the public.

### The Priorities and Pitfalls of Good Peer Review

#### Auditorium A

Facilitator: Dr Jordan Cuff  
(Newcastle University)

A practical session for researchers interested in improving their peer review skills. You will learn how to read and assess scientific articles, write constructive and useful review reports, and navigate the review and editorial process. The session also considers the evolving landscape of academic publishing.

### Meeting Societal Needs Through Image-Based Insect AI Technologies

#### Conference Room 3

Facilitator: Dr Cristina Preda  
(InsectAI COST Action)

This workshop introduces the InsectAI COST Action, a collaborative initiative using image-based artificial intelligence to monitor insect populations at scale. We will explore how AI can support biodiversity conservation, address gaps in entomological data, and help deliver practical solutions for environmental policy and public understanding.

## Thursday 08:30 to 09:30

### Insect Drawing Workshop

#### Conference Rooms 6 and 7

Facilitator: Emily Carter  
(Emily Carter London)

Pre-booking required  
– please sign up at the registration desk



Lesser banded hornet  
© Raghuram Annadana

Join scientific illustrator Emily Carter for a relaxed and creative workshop focusing on beetles and butterflies. You will be guided through how to structure a symmetrical pen drawing and hear about Emily's work, including her recent books *Insectarium* and *Insectile Inspiration*.

### Identification Keys: RES Insect Identification Handbooks

#### Conference Room 1

Facilitators: Beulah Garner (Natural History Museum, UK; Series Editor RES Insect Identification Handbooks), Gael Kergoat (INRAE, France; Editor-in-Chief Systematic Entomology), and Christiane Weirauch (Department of Entomology, University of California, Riverside).

Led by expert insect taxonomists and RES Editors, this workshop will show you how to use identification keys including practical activities and demonstrations, and tips from the experts. This workshop is aimed at early career researchers, or anyone looking to gain more experience of using identification keys.



## Apply for Organisational Membership

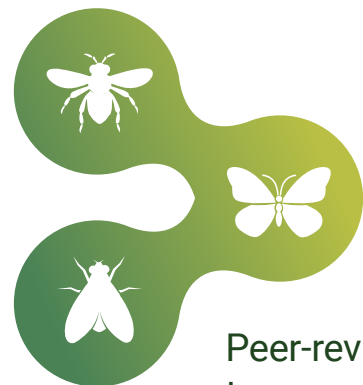
We pride ourselves on working in collaboration with others to achieve greater impact for insect science that is cutting-edge and makes ground-breaking contributions to both academic and industry sectors. That's why we've developed our organisational membership scheme.

Through the membership, your organisation can engage with us in meaningful ways, enabling colleagues to access discounted individual membership with full access to our journal portfolio, attend and present at our conferences, with the whole team increasing opportunities to engage through our publications and membership communications.

Join us from £500 + VAT per year.  
Find out at the RES stand at Ento25.







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# ADVANCES IN POLLINATOR RESEARCH

Peer-reviewed, community-born multidisciplinary journal launched to promote scientific knowledge about ALL pollinators.

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Illustrations by Denitsa Peneva

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Particular interest in transdisciplinary studies that aim at solving real-world problems and strengthen the links between research, industry and society.

## Editors-in-Chief

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University of Bern and Agroscope, Switzerland

**Dr. Lars Straub**

University of Bern, Switzerland

## Supported by

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## Networking and activities

### Bug Bingo!

Attending one of your first larger conferences can be daunting. We've created bug bingo as a fun way to get involved in different activities and network throughout the conference. Pick up your Bingo card at registration. If you get 5 squares in a row, you've got a bingo, with prizes for the first 5. If you complete all squares first, you get a full house with a special prize! Once you've completed a row head over to the RES stand. Good luck!

### Create your study insect

Get your artistic juices flowing and make a piece of art about your study insect(s). Head to the RES Hub where there will be paper, pens and plasticine available and somewhere to display your final creations. We would love you to share your designs on social media and tag #Ento25.

### EntoFashion

On the second day of the conference (Wednesday), we encourage delegates to wear their entomology finest! This could be anything from socks and patterned clothing to your own entomological creation. Our Student Representatives will be taking the time to photograph their favourites, with the top dressed winning a £500 Páramo voucher and second and third prizes kindly donated by The Roving House. The winners will be announced at the evening poster session. Feel free to share using #EntoFashion



PÁRAMO  
DIRECTIONAL CLOTHING

THE  
ROVING  
HOUSE

### Tuesday 9 September

#### Opening ceremony

09:00 – 09:15

Auditorium B

Join the RES President, RES Chief Executive Officer and conference convenors as they welcome delegates to Ento25!

#### Royal Entomological Society's Annual General Meeting (AGM)

13:00 – 14:00

Auditorium A

Help shape the future of our Society by attending the Royal Entomological Society's Annual General Meeting. Please note this is open to RES Members and Fellows only.

#### Civic reception hosted by The Rt Hon The Lord Provost of Glasgow, followed by President's reception & drinks

City Chambers, 82 George Square

18:00 – 19:30

A welcome to Glasgow from The Rt Hon The Lord Provost of Glasgow, followed by drinks with old friends and new at the delegate reception hosted by RES President, Jane Stout. RES staff and volunteers will be on hand to guide you to the City Chambers, which is a short walk from the Technology & Innovation Centre.



Banded Demoiselle damselfly, Calopteryx splendens.  
© Gustav Parenmark, age 17 2023





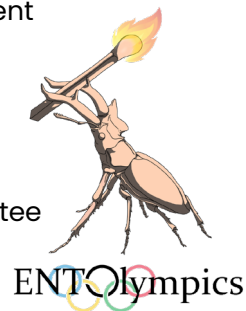
## EntOlympics

19:30 – 22:00

Committee Room No.9, 18 John St

We are delighted to welcome back EntOlympics – an entomology quiz for student and early career insect scientists. This is a pub quiz style activity, run by the RES Student Representatives, where teams compete using their entomological general knowledge and insect ID skills for a team prize.

Registration was required when you registered for Ento25, but you can still register to take part on the day, just check at the RES registration desk that spaces are still available. You will be assigned teams on the night. Committee Room No.9 is a short walk from the main conference venue, and you can purchase your own food and drinks at the venue. Good luck!



## Wednesday 10 September

### Conference Fun Run

07:00 – 07:45

Meeting point: Outside the Technology and Innovation Centre (99 George Street)

Start your day on the right foot with our Pre-Conference Run! Join RES CEO, Simon Ward, for an informal 5k run to energise your day and connect with others. All paces welcome.

### Women in Entomology - career showcase

08:15 – 09:15

Conference Room 6 & 7

An opportunity to raise the profile of women in entomology, to inspire early-career insect scientists, to discuss the challenges that women face in their entomology careers, and to provide an informal opportunity to network with other entomologists. All genders are welcome. The session is chaired by Helen Roy, with panel members Hayley Jones, Anna Platoni, and Gia Aradottir.

### LGBTQ+ Drop-in

12.45 – 13:45

Conference Rooms 4 and 5

We warmly invite all delegates to join our LGBTQ+ Drop-in session, an inclusive and welcoming space designed to foster connection, support, and open dialogue. Whether you identify as part of the LGBTQ+ community, are an ally, or simply wish to learn more, come along to share experience, ideas, and resources in a relaxed setting.

### Poster Session

18:15 – 19:00

Level 2 & 3 Foyers

We encourage delegates to view the posters, engage with presenters, and ask questions about their work over drinks. Remember that there are posters on level 2 & 3 so make sure you take time to visit all areas.

## Pitch a Paper

18:15 – 19:00

RES Hub, Level 2 Foyer

Do you have a paper that you're looking to submit? Our journal editors will be on hand to give feedback. Bring along some of your key findings and be prepared to give a quick summary, time will be limited for each delegate.

## Conference Dinner & Cèilidh

19:30 – Midnight

DoubleTree by Hilton  
36 Cambridge St

If you purchased a ticket in advance, join us at Double Tree by Hilton to continue networking over dinner. This is a 15–20-minute walk from the conference venue. If you are going directly from the poster session, meet in the registration area to walk over as a group. Your dinner ticket can be found in your name badge.

## Thursday 11 September

### Moth Trap Opening

Wednesday 11 September,  
08:00 – 09:00

University Gardens, University of Glasgow  
(behind Queen Margaret Union)

Start your day with an early morning exploration of local insect biodiversity. Join Daisy Martinez to examine the contents of a moth trap set overnight in the University Gardens. This informal session offers a fascinating insight into the diversity of nocturnal insects in Glasgow, with a chance to learn more about trapping techniques, identification, and moth ecology.

### Meet the Speakers

11:15 – 12:45

RES Hub

Grab a coffee and chat to our plenary speakers. This is an opportunity for students and early career entomologists to ask our plenary speakers questions in a small, informal setting. Please note that this session will be before Nicole van Dam's talk.

## Upcoming Events

**Insects as Food & Feed  
Conference 2025 | 09 October**  
University of Roehampton  
& Online

**Orthoptera Special Interest  
Group 2025 | 05 November**  
Natural History Museum  
& Online

**Irish Entomologists' Meeting  
2025 | 01 December**  
University College Dublin

**Behaviour Special Interest  
Group 2026 | 10 February**  
The Studio, Birmingham &  
Online

**Aquatic Insects Special Interest  
Group 2026**  
**26-27 February**  
Online

Sawfly larvae  
© Jamie Spensley 2021





# Sponsors & Exhibitors

## Sponsors

Thank you to our event sponsors for their generous support of Ento25.



Lanyard Sponsor

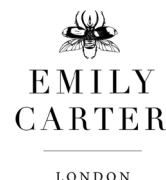


Plenary Sponsors



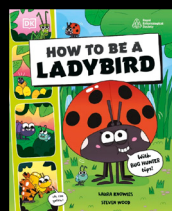
## Exhibitors

We are pleased to welcome the following exhibitors and encourage you to connect, ask questions, and discover new ideas that could benefit your work. The exhibition areas are located in the foyer of both level 2 & 3, close to the catering stations.

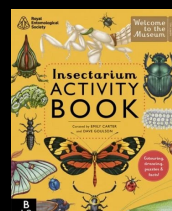


## New Books from the RES

Drop by the RES Hub to explore our latest popular science publishing. New for 2025:



How to Be a Ladybird (June)



Insectarium Activity Book (July)



How to Be a Dragonfly (October)

Perfect for insect enthusiasts of all ages  
- find out more at the stand.

# Presenter guidelines

All presentations must be uploaded in your session room at the venue. You cannot use your own laptop. Please upload your talk at least two hours before the start of your session, or if possible the day before, particularly if you are speaking in a morning session. The session rooms will be open during the core hours of the conference, with an AV volunteer on hand.

There are two main session rooms, Auditorium A and Auditorium B, please ensure you are clear which room you are speaking in.

Please arrive at your session 15 minutes before the start of the session to introduce yourself to the Chair and confirm how you would like to be welcomed to the stage.

Ensure you are clear how long your talk should be, leaving time for questions. The session Chair will keep you to time, signalling when you have 5 minutes and 1 minute of speaking time remaining.

Where there are microphones available, please ensure these are used so that everyone in the room and online can hear you.

## Posters

All posters will be located in the level 2 and 3 foyers and arranged according to your poster number, which can be found in the programme.

You can put your poster up anytime from 08:00 on Tuesday 9 September. We recommend having this in place for the first coffee break.

All posters must be dismantled from the boards by 13:30 on Thursday 11 September. Any remaining posters may be disposed of.

There will be opportunities to stand by your poster and speak to delegates about your work during breaks, but there are dedicated posters sessions on the programme.

## Student prizes

Thank you to CABI for kindly providing prizes for best talk, best poster and best online poster. Judging will take place during the conference based on criteria including visual style, scientific content, originality of research and effectiveness of communication.

## Sharing content

We encourage delegates to share updates from the conference on social media using #Ento25, it's a great way to connect with others that are not attending and share important research.

Not all research is ready to be publicised however. If you see either of these symbols on a slide or poster, please respect this and do not share this more widely.

If you have any questions about your presentation, please ask a member of RES staff.

# Calling all Students!

## RES Student Representative Opportunity

The Royal Entomological Society (RES) is seeking an enthusiastic and dedicated Student Representative to join our team.

- Provide a student voice within the Society
- Help organise the annual Student Forum
- Connect with a diverse network of researchers, professionals, and fellow students across academia, industry, and outreach
- Develop your skills in event organising and networking

Our student Representatives are given free access to the Student Forum and Ento26!

Apply by 5 October 2025



Scan the QR code to find out more







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## Insects as Food and Feed Conference delivering sustainable protein to the food system

Thursday 9 October

Elm Grove Conference Centre, University of Roehampton, London & Online

Join researchers, industry leaders, and practitioners for an inspiring programme of talks exploring the potential of insect protein. Topics will cover the benefits, ethics, and challenges of rearing insects, as well as their applications across agriculture, livestock feed, food production, and human nutrition.

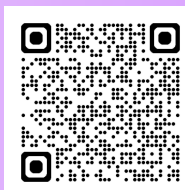
### Keynote Speakers:

- Dr Jo Gould, University of Nottingham
- Prof Jonathan Birch, Professor of Philosophy and Director of the Jeremy Coller Centre for Animal Sentience, the LSE
- Tim Parr, Professor in Nutritional Biochemistry, Faculty of Science, The University of Nottingham
- Ben Brown, Co-Founder & COO, InsectBiotech

This event is hosted by the Royal Entomological Society's Insects as Food and Feed Special Interest Group (SIG) and is open to anyone with an interest in insect science, food security, and sustainable agriculture.

This is a key opportunity to connect, collaborate, and advance the field of insects as food and feed.

In-person registration deadline: 22 September



www.royensoc.co.uk/event/iaff25

# Oral presentations

Please note only the presenter's name and title of the presentation is listed in the printed programme. For a full list of authors and abstracts you can view the abstract book online via the Ento25 hub using the QR code:



All online talks will be marked with this icon:

The following symbol denotes speaker is a winner of RES Journal Early Career Researcher Best Article Prize. Read more about the awards here:



Tuesday 9 September

## Innovation & Technology (1)

Auditorium A | Chair: James Windmill, University of Strathclyde

10:45 **Holly Bassett, Nottingham Trent University**

Novel, non-invasive monitoring of the nesting behaviours of the leafcutter bee *Megachile centuncularis* using continuous vibrational measurements

11:00 **Fatima Zahrae El Arroud, University Mohammed VI Polytechnic**

Microwave Imaging for Red Palm weevil *Rhynchophorus ferrugineus* Detection

11:15 **James Bell, Centre for Applied Entomology, Parasites and Pathogens, Keele University**

Tackling one of the hardest problems in entomology: estimating small insect migration distances

11:30 **Elva Robinson, University of York**

The role of wood ant translocations in promoting woodland biodiversity

11:45 **Christopher Noroozi, University of Sheffield**

Probabilistic Tracking of Bumblebee Flight Paths

12:00 **Vilde Leipart, Norwegian University of Life Sciences**

Resolving the zinc binding capacity of honey bee vitellogenin and locating its putative binding sites





Tuesday 9 September

## Conservation and Management of Forest Insects

**Auditorium B | Chair: Max Tercel, University of Montpellier / CIBIO-InBIO**

**RES Journals: Agriculture and Forest Entomology & Insect Conservation and Diversity**

**10:45 Dianne Joy Aguilon, University of the Philippines Los Baños**

Influence of Reforestation Age on Insect Community Structure, Diversity and Abundance in a Tropical Rainforest

**11:00 Jay Wilson, Queen Mary University of London & Royal Botanic Gardens Kew**

Assessing Coleoptera and Lepidoptera Responses to a Land Use Gradient in Northwest Zambia

**11:15 Alex Dittrich, Nottingham Trent University**

Insect Translocations to Restore Habitats, Study Communities, and Engage People: A Case Study Using Hairy Wood Ants

**11:30 Katrina Dainton, Forest Research**

On the rise: the impact of insect pests on British forests, their drivers and management

**11:45 Jozsef Vuts, Rothamsted Research**

Responses of *Ips typographus* to Sitka and Norway spruce

**12:00 Alice Walker, Forest Research**

The Forest Trapping Network: An early detection strategy for quarantine forestry pests in GB

## Innovation & Technology (2)

**Auditorium A | Chair: Doreen Siria, University of Glasgow**

**14:15 Rafael Henrique da Rosa, Western Parana State University** 

Automating *Aedes aegypti* Surveillance in Brazil: A Low-Cost, Scalable, and Plug-and-Play Tool for Continental-Scale Monitoring

**14:30 Jess Lister, Edinburgh Napier University**

BEATBOX: Developing accessible methods for studying insect vibrational signals with insights from stonefly drumming

**14:45 João Pedro Ortega, Western Parana State University** 

Towards Accurate Mosquito Surveillance: Why Proper Machine Learning Task Selection Matters

**15:00 Ewan Parry, University of Glasgow**

Visualizing the lifecycle of a Plasmodium-blocking microsporidian in *Anopheles* mosquitoes

**15:15 Deepak Kumar Purusothaman, University of Glasgow**

Colourimetric LAMP Assay for Mosquito Release Programs and Infection Monitoring

**15:30 Stewart Rosell, University of Aberdeen & Agri-food and Biosciences Institute**

Challenges and opportunities for environmental DNA sampling for non-native invertebrates in horticultural habitats



## Pollinators (1)

**Auditorium B | Chair: Fiona Highet, SASA (Science & Advice for Scottish Agriculture)**

**14:15 Seirian Sumner, University College London**

Pollinator Potential of Aculeate Wasps

**14:30 Safinatu Ameen, Natural Resources Institute, University of Greenwich**

Hoverfly use for the pollination of commercial soft fruits

**14:45 Gael Kergoat, INRAE – Centre de Biologie pour la Gestion des Populations (CBGP)**

Diverse but overlooked: weevils as specialized brood-site pollinators of tropical flora

**15:00 Yoorana Peyre, University of Stirling**

Impact of short and long exposure to abnormal temperatures in bumblebees' (*Bombus terrestris* ssp. *audax*) cognitive abilities.

**15:15 Charlie Woodrow, Uppsala University**

Periodic buzzing enhances pollen release by bees and micro-robots

**15:30 Emma Plant, University of Glasgow**

Seasonal changes in native and non-native plants drive changes in flower visitor networks in gardens and allotments

## Evolution, Genomics & Endosymbionts

**Auditorium A | Chair: Laura Martinez, Harper Adams University**

**RES Journal: Insect Molecular Biology**

**16:15 Erin Foley, University of Leicester**

Larval diapause slows adult epigenetic ageing in an insect model, *Nasonia vitripennis*

**16:30 Antonella Bacigalupo, University of Glasgow**

Comparative genomics of reduviids: on the origins of blood feeding in the assassin bugs

**16:45 Idris Adams, University College London**

Evolution of prey type and life history traits in solitary aculeate wasps

**17:00 Saam Hasan, University of Plymouth**

A Genus-Wide Comparison of the Nature and Incidence of Positive Selection in Bumblebees

**17:15 Daniel Leybourne, The University of Liverpool**

Aphids, endosymbionts, and plant viruses: How does vector-virus diversity influence virus-vector-host interactions?

**17:30 Simon Segar, Harper Adams University**

Distribution and diversity of potential cytoplasmic incompatibility agents (*Wolbachia* prophage WO) within an entire fig wasp genus (Agaonidae: Pleistodontes)








## Pollinators (2)

**Auditorium B | Chair: Gail Jackson, University of Edinburgh**

**RES Journal: Ecological Entomology**

- 16:15 Jamie Smith, University of Hull**  
Lasting Impacts of Sublethal Pre-pupal Heatwaves on the Fertility of the Solitary Bee, *Osmia bicornis*
- 16:30 Fairo Dzekashu Foryu, University of Lethbridge**  
Pollination in a changing climate: Warming and water scarcity distorts floral traits, plant-pollinator interactions and seed yield of canola plants
- 16:45 Matthew Chambers, The University of Hull**  
Do mother bees provisioning young tailor their pollen provisions to the nesting environment?
- 17:00 Krzysztof Miler, Institute of Systematics and Evolution of Animals, Polish Academy of Sciences**   
The evolutionary ecology and behavioral relevance of ethanol in honeybees
- 17:15 Ashley Darst, Michigan State University**    
Salty floral rewards affect floral visitation and pollination rate
- 17:30 Tegan Gaetano, University of Aberdeen**  
(Sea) Salt of the Earth: Structural Plant-pollinator Communities Mediated by Micronutrient Reward in Scottish Machair Ecosystems

**Wednesday 10 September**

## Insects & Society

**Auditorium A | Chair: Mauro Pazmino Betancourth, University of Glasgow**

**RES Journal: Medical and Veterinary Entomology**

- 11:00 Michael Bonsall, University of Oxford**  
Variation in the mating interactions between *Aedes aegypti* and *Aedes albopictus* impacts control programmes
- 11:15 Emma Reid, Liverpool School of Tropical Medicine**  
Evaluating Insecticide Exposure: Surface Availability Compared to Total Content in LLINs
- 11:30 Ivan Casas Gomez-Uribarri, University of Glasgow**  
*Plasmodium falciparum* affects mosquito lifespan in a species-specific and temperature-dependent way
- 11:45 Diego Cruz Fagua, University of Salamanca**  
Deciphering the Probiotic Potential of Gut Bacteriome of Edible Crickets and Locusts: A Study of Wild and Farmed Populations for Enhanced In-sect Farming
- 12:00 Georgia Gorbould, Newcastle University**  
The implications of Different Agricultural Management Approaches on the Assemblage and Hierarchy of Coprophagous Beetle Communities in North Northumberland



**12:15 Meshach Lee, University of Glasgow**

Assessing variation in mosquito abundance and diversity across a rural-urban gradient in Scotland






**12:30 Doreen Josen Siria, University of Glasgow**

Assessing the accuracy and precision of age-grading *Anopheles* malaria mosquitoes based on ovarian morphology

## SYMPOSIUM: Insect Decline & Population Change

**Auditorium B | Chair: Helen Roy, Centre for Ecology and Hydrology**


**RES Journal: Insect Conservation & Diversity**

- 11:00 Shannon Murphy, University of Denver**  
Indirect effects of global environmental changes on insect herbivores through top-down and bottom-up forces – a meta-analysis
- 11:15 Lindsey Kemmerling, University of Minnesota**   
Geographic range-size explains butterfly tolerance to heavy metals more than coevolutionary history with toxic plant defense chemicals for 26 common species
- 11:30 Reyard Mutamiswa, Rhodes University**    
Thermal stress exposure of pupal oriental fruit fly has strong and trait-specific consequences in adult flies
- 11:45 Sean Rands, University of Bristol**  
Behavioural responses to rainfall in the pond skater *Gerris lacustris*
- 12:00 Peter M. J. Brown, Anglia Ruskin University**  
Ladybird community changes and the dominance of the invasive harlequin ladybird *Harmonia axyridis* in long-term field studies in East Anglia, England
- 12:15 Lucy Holland, University College London**  
Assessing Long-Term Trends in Tropical Bee Occupancy in Response to Climate Change
- 12:30 Denise Wawman, Edward Grey Institute, Department of Biology, University of Oxford**  
Mapping the UK's Flat flies – a citizen science project  

## Natural History & Taxonomy


**Auditorium A | Chair: Gael Kergoat, INRAE**

**RES Journal: Systematic Entomology**

- 15:45 Robin Hutchinson, UK Centre for Ecology & Hydrology & University of Exeter**  
Adding Diptera to the UK Checklist: how can we support the discovery of new species?
- 16:00 Pritha Dey, National Centre for Biological Sciences, Bangalore**   
From traits to tactics: How moth traits influence survival against adaptive bat predators
- 16:15 Beulah Garner, Natural History Museum, London**  
Counting on all species: one last look at the beetle tree of life



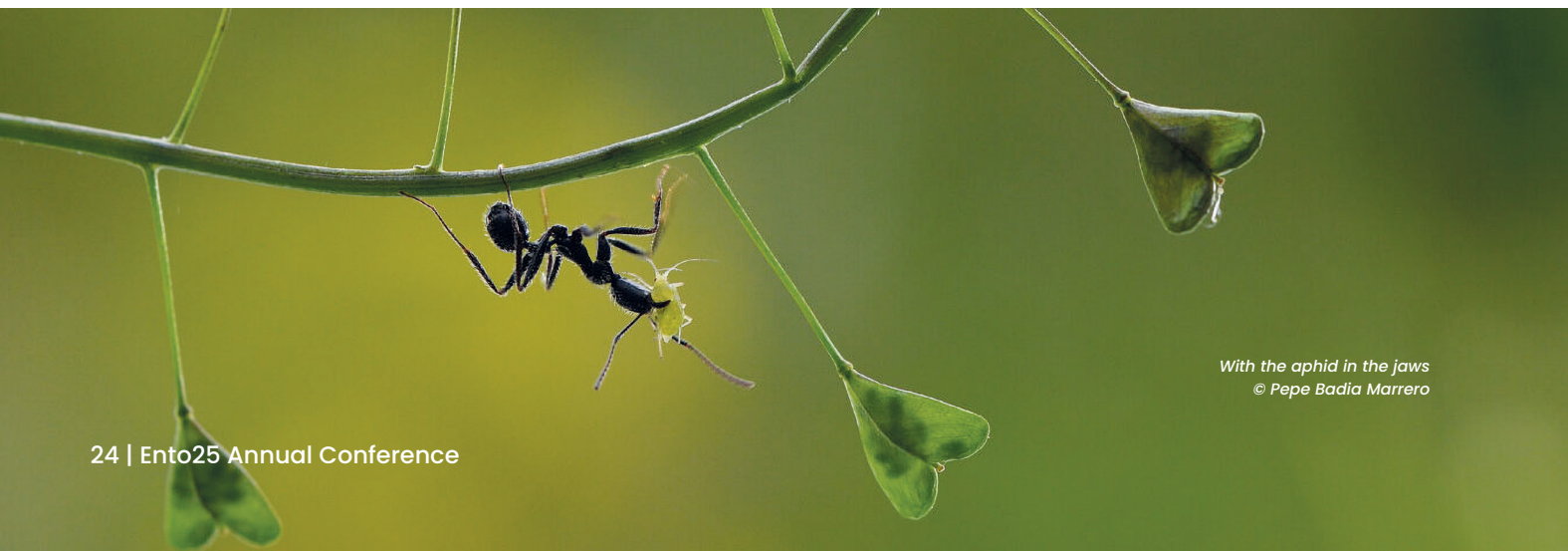


- 16:30 Agata Kowalik, Natural History Museum of Geneva & University of Geneva**  
Target-capture museomics and biogeography of arboreal *Therates* tiger beetles (Coleoptera, Cicindelidae)
- 16:45 Cody Raul Cardenas, Natural History Museum of Geneva**  
HyRAD-X phylogeography of the Balkan mountain endemic and flightless *Calosoma* (*Callisthenes*) *pentheri*
- 17:00 Víctor Nogueras, University of La Laguna – Department of Animal Biology, Soil Science and Geology**   
Microgeographic speciation within mountains: Insights from a species complex of grasshoppers (Orthoptera: Gomphocerinae)

## Integrated Pest Management (1)

**Auditorium B | Chair: Daniel Leybourne, The University of Liverpool**  
**RES Journals: Ecological Entomology & Physiological Entomology**

- 15:45 Neelendra Joshi, University of Arkansas**  
Integrated Pest and Pollinator Management: A Framework to Safeguard Pollinator Health
- 16:00 Rosie Knapp, ADAS**  
What doesn't kill you makes you weaker: Lethal and sub-lethal impacts of insecticides on agriculturally important natural enemies
- 16:15 Antoine Pichon, Teagasc**  
Insecticide resistance in *Bruchus rufimanus* in Ireland: Evidence for metabolic resistance to  $\lambda$ -Cyhalothrin
- 16:30 Chandana C. R, ICAR-National Bureau of Agricultural Insect Resources, Bengaluru**   
Transcriptomic and functional genomics insights into insecticide resistance in *Maruca vitrata* F. (Lepidoptera: Crambidae)
- 16:45 Rakesh V, ICAR-Indian Agricultural Research Institute (IARI), New Delhi**  
Sprayable RNA solutions: A sustainable alternative for managing insect vectors of plant viruses
- 17:00 Elizabeth Tettey, University of Ghana, Legon & CSIR Oil Palm Research Institute, Ghana**   
Spatiotemporal Dynamics of *Oryctes monoceros* Olivier (Coleoptera: Scarabaeidae), in Ghana: Seasonal and Agro-Ecological Drivers of Population Peaks.




With the aphid in the jaws  
© Pepe Badia Marrero



**Thursday 11 September**

## Invasive Species & Community Ecology

**Auditorium A | Chair: Robert Wilson, Museo Nacional de Ciencias Naturales**  
**RES Journal: Ecological Entomology**

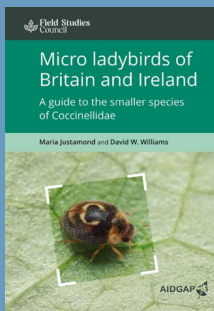
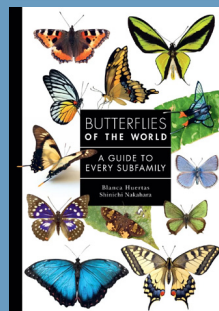
- 09:45 Graham Stone, University of Edinburgh**  
Top-down and bottom-up effects structure parasitoid assemblages attacking cynipid galls in the forests of Sichuan, China
- 10:00 Ainoa Pravia, Forest Research**  
Arthropod communities as indicators of peatland restoration trajectories
- 10:15 Peter Convey, British Antarctic Survey**  
Despite its isolation, Antarctica's unique terrestrial ecosystems are increasingly threatened by invading insect 'ecosystem engineers'
- 10:30 Gwenaëlle Deconninck, Lund University**   
Ornamental plants and mistletoe as catalysts of spring populations of *Drosophila suzukii*
- 10:45 Helen Roy, UK Centre for Ecology & Hydrology; University of Exeter**  
Predicting and tracking invasive insects on the horizon
- 11:00 Simeon Wilton, UK Centre for Ecology and Hydrology**  
Has the arrival of Harlequin Ladybird, *Harmonia axyridis*, contributed to the declines in the distribution of UK Hoverfly species?

## Integrated Pest Management (2)

**Auditorium B | Chair: Ali Karley, The James Hutton Institute**  
**RES Journal: Agricultural and Forest Entomology**

- 09:45 Christopher Williams, Liverpool John Moores University**  
The natural enemies of snail-killing flies (Diptera: Sciomyzidae), their position in the fly/mollusc ecosystem, and implications for use of sciomyzids in biological control
- 10:00 Laura Marcela Martinez Chavez, Harper Adams University**  
The efficacy of commercial populations of parasitic wasps against different populations of the potato aphid (*Macrosiphum euphorbiae*)
- 10:15 Simon Elliot, Universidade Federal de Viçosa**  
Entomopathogenic (and endophytic) fungi as ecosystem service providers and as major contributors to the bioinput revolution in Brazil
- 10:30 Wim van Herk, Agassiz Research and Development Centre, Agassiz, British Columbia**  
The pest wireworm complex in Canada: developing new tools for identification and management
- 10:45 Moshe Zaguri, Agricultural Research Organization – Volcani Institute**  
Plant induced defenses promote transgenerational effects including intraclutch cannibalism in Colorado potato beetle
- 11:00 Nasamu Musa, RSK ADAS LTD**  
Is it time to rethink aphid treatment thresholds in potato production?





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## Poster presentations

All posters are displayed in the level 2 and 3 foyers. If you have a coloured dot on your poster, this indicates you entered yourself for the student poster prize.

Please note only the presenter's name and title of the presentation is listed in the printed programme. For a full list of authors and abstracts you can view the abstract book online via the Ento25 hub using the QR code.



### Conservation and Management of Forest Insects

- P1 Erfan Bari, Concordia University**  
The Effect of Temperature on Spruce budworm Performance
- P2 Kyle Miller, Forest Research**  
Using a population genomics approach to track the spread of an invasive lepidopteran.
- P3 Norina Vicente, Porto University**  
Exploring the Unknown: Ant food webs and Morphologies in Equatorial Guinea's Forest Stronghold
- P4 Anna Platoni, Forest Research**  
Plantanus Lace Bug, *Corythucha ciliata* (Say) (Hemiptera: Tingidae) – a newly reported pest in Central London.
- P5 Florentine Spaans, Agri-food and Biosciences Institute**  
Ash sawfly (*Tomostethus nigratus*) in Ireland
- P6 Charlotte Cooke, Swansea University**  
Wood Ants as Ecosystem Engineers
- P7 Katherine Lester, Forest Research**  
Field evaluation of a 'Lure & Infect' Device using *Beauveria bassiana* for sustainable management of the large pine weevil, *Hylobius abietis*

- P8 Oliver O'Doherty, Newcastle University**  
Development of Invertebrate Communities in Young Broadleaved Woodlands in the UK

- P9 Maximillian PTG Tercel, University of Montpellier & CIBIO-InBIO**  
The key to the queendom: driver ants as keystone species for rainforests across Africa

### Pollinators

- P10 James Gilbert, University of Hull**  
How do wild bees manage nutrition in a changing world?
- P11 Lola Torres-Montagner, Royal Botanic Gardens, Kew**  
Has reproductive success in insect-pollinated orchids changed through time?
- P12 Marzia Zagallo, Free University of Bozen-Bolzano**  
From Urban to Alpine Ecosystems: Pollinators as Bioindicators of Environmental Health
- P13 Zoe Bird, University of Southampton**  
Investigating the impact of land-use change on the occupancy of tropical montane bees in Malaysia
- P14 Alice Walker, University of Edinburgh**  
How effective are conservation strategies for pollinators within arable systems? Taking a "real-world" approach





**P15 Clare Boyes, Harper Adams University**  
Microplastics collected by solitary bees when foraging for pollen

**P16 Duncan Bell, University of Suffolk**  
An X-ray Micro-CT study conducted in *Bombus terrestris*. Experience with a simple sublimated Iodine technique to enhance external and internal anatomical definition

**P17 Laura Briggs, University of Strathclyde & The James Hutton Institute**  
The Importance of Bumblebee Buzz-Pollination in Blueberries

**P18 Daniel Lim, University of Edinburgh**  
Seasonal and temporal dynamics in urban plant-pollinator networks

## Evolution, Genomics & Endosymbionts

**P19 Agnes Man Sum Chan, Imperial College London & Natural History Museum**  
Phylogeny and evolution of host-use in British nocturnal Ichneumonidae

**P20 Jessica Frith, University of Lincoln**  
Tracing the Evolution of Heteromorphic Sperm Across Insect Lineages

**P21 Laura Chatterley, University of Strathclyde**  
Novel Wolbachia strains identified in *Anopheles* mosquitoes

**P22 Shannon Keenan, University of Strathclyde**  
Comparative Ecology and Wolbachia Prevalence of *Simulium* Blackfly Larvae in Urban and Forested Scottish Streams

## Insect Decline & Population Change

**P23 Beatrix Ward, University of Cumbria**  
From Forests to Farmland: Effects of anthropogenic land-use and environmental factors on carrion beetle (Silphinae spp.) communities

**P24 Ivy Ng'iru, UK Centre for Ecology and Hydrology & Cardiff University**  
Temporal shifts in field margin structure and lepidopteran larval use: towards a likelihood of exposure framework

**P25 Sarah Meredith, Royal Entomological Society**  
Applying Royal Entomological Society research on the Large blue (*Phengaris arion*) butterfly to increase the distribution and abundance to chalk grassland sites in Denmark

**P26 Sam Appleyard-Sanderson, University of Bristol**  
Effects of Targeted-Selective Ivermectin Treatment on Dung Insect Communities and Ecosystem Functions

**P27 Helen Barber-James, National Museums Northern Ireland**  
Underexplored freshwater habitats in Ireland – what are we missing? A case study using riverflies

## Insects & Society

**P28 Cintia Akemi Oi, University College London**  
Naga traditional knowledge and Asian hornet rearing

**P29 Luke Durston, University Centre Askham Bryan**  
Do Visual Barriers Reduce the Occurrence of 'Black Eye' in Captive *Hierodula membranacea*? Investigating the Effects of Enclosure Design and Environmental Parameters on Mantis Health and Welfare

**P30 Mark Taylor, University of Glasgow**  
Assessing Antennal Grooming as a Flexible Self-Protective Behaviour in Two-Spotted crickets (*Gryllus bimaculatus*)

## Natural History & Taxonomy

**P31 Karmannye Chaudhary, Queen Mary University of London**  
Reviving a Lost Lineage: Rediscovery of a forgotten genus and description of a new species of *Losgna* (Cameron 1903)

**P32 Emma Dickson, University of Huddersfield**  
The Detailed Separation and Identification of *Hydrotaea capensis* and *Hydrotaea aenescens* Through Comparison of Morphological Features for Future Educational Use

**P33 Hassan Naveed, Basatin Landscaping LLC**  
Deltoccephalinae leafhoppers (Hemiptera, Cicadellidae) from Pakistan with descriptions of two new genera and five new species

**P34 Robert Wilson, Museo Nacional de Ciencias Naturales (MNCN-CSIC)**  
Developing a national reference collection for pollinating insects in Spain

**P35 Elsa Heywood, University of Oxford**  
Butterfly size changes over 140 years are influenced by habitat ecology and phylogeny

**P36 Joseph Rees, University of Lincoln**  
Wasting Away: The effect of diet on the aposematic signals of *Nicrophorus vespilloides*

**P37 Kwang Pum Lee, Seoul National University**  
Heat stress during early development poses lasting threats to a montane stag beetle, *Lucanus maculifemoratus* ssp. *dybowskyi*

**P38 Rosy Christopher, Newcastle University**  
Friend, Foe or Freeloader: Using molecular methods and community science to investigate the ecological outcomes of a potential arachnid-plant commensalism

## Integrated Pest Management (IPM)

**P39 Adi Klot, Volcani Institute Agricultural Research Organization**  
Different aspects of the effect of global warming on effective control of the pest mite *Tetranychus urticae*

**P40 Md Munir Mostafiz, Teagasc**  
Impacts of Clone-Specific Life-History Traits on the Fitness and Population Dynamics of *Metopolophium dirhodum* on Winter Barley

**P41 Larissa Collins, Fera Science Ltd**  
An industry collaborative project to improve wireworm (Elateridae) Integrated Pest Management

**P42 Amrithapriya Bindu, John Innes Centre**  
Fighting the Flea Beetle: Genetic Secrets of Resistance in *Sinapis alba*

**P43 Carolyn Mitchell, James Hutton Institute**  
Companion cropping in Scottish seed potato production – the impact on aphid abundance and virus control

**P44 Danica D Cruz, John Innes Centre**  
Exploring multi-pest resistance in oilseed rape (*Brassica napus*)

**P45 Leqi Zhang, UK Centre for Ecology and Hydrology (UKCEH) & University of Liverpool**  
Impacts of climate change on the resilience of natural enemy communities for biocontrol of insect pests

**P46 Madeleine Workman, John Innes Centre**  
DsRNA based biopesticides offer a sustainable alternative to chemical controls against the Cabbage Stem Flea Beetle (*Psylliodes chrysocephala*)

**P47 Shuchao Wang, University of Exeter**  
Molecular mechanism of aphid resistance to cyantraniliprole

## Invasive Species & Community Ecology

**P48 Stephen Gillanders, University of Aberdeen, AFBI, SAERI & Queen's University Belfast**  
Earwigs in the Falklands: How big is the threat?

**P49 Chang-Ti Tang, University of Edinburgh**  
PCR-based detection of non-native insects in the UK: the case of the chestnut gallwasp *Dryocosmus kuriphilus* and its biocontrol agent *Torymus sinensis*

## Medical Entomology

**P50 Elin Cunningham, University of Birmingham**  
Integrating Morphological and Molecular Methods to Identify *Anopheles* Mosquitoes in Western Kenya







P51

**Emily Webber, Edge Hill University**

Ecological Determinants of Cuticle Morphology in *Aedes aegypti*: The Role of Larval Density and Body Size

P52

**Fatma Bursali, Aydin Adnan Menderes University**

Investigating the Effects of *Asaia* Bacteria on the Developmental Biology of *Aedes aegypti*, the dengue fever vector

P53

**Gemma Harvey, Liverpool School of Tropical Medicine**

Making power analysis easy: browser-based apps for designing mosquito experiments

P54

**Mauro Pazmino, University of Glasgow**

Effects of temperature fluctuations and humidity variation on survival and life history traits of two *Anopheles* malaria mosquito species

P55

**Rosie Hobbs, Pirbright Institute**

Exploring Variation in infection of different Bluetongue Virus Particles in *Culicoides* biting midges

P56

**Roumik Banerjee, Birla Institute of Technology and Science, Pilani, K K Birla Goa Campus**

Juvenile hormone-mediated chromatin remodeling: insights into synergistic action of downstream transcription factors, Hairy and Krüppel homolog 1

P57

**Ryan Carmichael, Queen's University Belfast**

Mosquito surveillance across wetlands in Northern Ireland, 2025

P58

**Shannara Eilean Smith, University of Glasgow**

Mosquito age at infection affects malaria parasite development and transmission, in a laboratory setting



## Online posters

We are pleased to welcome a selection of online posters from delegates joining virtually. We encourage all in-person delegates to take the time to view these posters via the Ento25 hub using the QR code and contact presenters with any questions you about their research.



### Conservation and Management of Forest Insects

OP1

**Benjamin Brough, Royal Horticultural Society**

Tracking the distribution and identity of an aphid causing novel symptoms on Buddleja in the UK

### Pollinators

OP2

**Martina Janků, Palacký University Olomouc**

Nitric oxide as a key signalling molecule for antimicrobial peptide production in the honey bee (*Apis mellifera*)

OP3

**Silas Biggin, University of Stirling**

Does learning differ between wild-caught honey and bumblebees?

OP4

**Zoltán Tóth, Plant Protection Institute, HUN-REN Centre for Agricultural Research**

Effects of flupyradifurone exposure on the antennal detection and chemosensory orientation of buff-tailed bumblebees (*Bombus terrestris*)

OP5

**Bailey Lankford, University of North Carolina Asheville**

Parasite Hideouts: Preserving Native Hymenopterans Through Pollinator Hotel Management

OP6

**Evgenia Kapsi, Agricultural University of Athens**

Assessing the Recovery of Insect Pollinators After Megafire Disturbance: A Two-Year Study in Mediterranean Landscape, Greece

OP7

**Fiona Tainsh, University of Warwick**

Population genetics of the commercially significant red mason bee, *Osmia bicornis*

### Evolution, Genomics & Endosymbionts

OP8

**Madison Bone, Deakin University**

Exploring bacterial contributions to the role of *Lucilia cuprina* as an Australian flystrike pest

### Insect Decline & Population Change

OP9

**Anna Evans-Woolf, Royal Botanic Gardens Kew, Queen Mary University of London**

How does agricultural land use affect hymenoptera diversity in North West Zambia?

OP10

**Bardh Xerxa, Universum International College, Prishtina**

The Conservation Status of EPT Taxa in Kosovo

OP11

**Dodly Prosper, Queen Mary University of London & Royal Botanic Garden Kew**

Flies on the Edge: Land-Use Change and Community Shifts in Zambian Diptera

OP12

**Jasvinder Kumar, Panjab University, Chandigarh**

Assessing How Environmental Variables and Carcass Microhabitat Drive Changes in Histeridae Beetle Populations during Buffalo Calf Decomposition

OP13

**Upasana Sengupta, Ashoka University**

Living on the edge: understanding patterns of insect herbivory in a fragmented landscape

### Insects & Society

OP14

**Andritafitanomenjanahary Toky Sitrakiniaina, University of Antananarivo**

Distribution of anthropophilic Culicidae in the new protected area (NPA) of Ambohidray and in the Special Reserve of Ambohitantely, Madagascar

### Natural History & Taxonomy

OP15

**Andres Martinez, Instituto de Investigaciones Forestales y Agropecuarias Bariloche (IFAB; CONICET-INTA)**

Lack of inbreeding avoidance in yellowjacket gynes in an invaded area

OP16

**Emily Gilford, University of Exeter**

Trait-specific behavioural plasticity in response to repeated predatory threats in wild crickets (*Gryllus campestris*)

OP17

**Jakob Wiil, University of St Andrews**

From First to Second: Does Environmental Temperature Shape Reproductive Investment Trajectories

OP18

**Zuzana Dybalová, Swansea University**

From Protection to Production: How Ants (*Myrmica rubra*, *Lasius niger*) Shape Extrafloral Nectaries and Plant Fitness in Temperate Climates





## Integrated Pest Management (IPM)

- OP19 Jude Woodcock, University of Bristol**  
Investigating the effects of repeated cold exposures on the fertility of a winter-active parasitoid
- OP20 Dachena Romain Gracia, Mohammed VI Polytechnic University**  
Diversity of phytophagous and auxiliary insects of quinoa from humid to arid regions in Morocco: implications for crop sustainability
- OP21 Diligent Obobo, University of Uyo, Nigeria**  
Effects of Methanol leaves Extract of Botanicals on Metabolic Parameters of *Callosobruchus maculatus* Fab. and *Sitophilus zeamais* L.
- OP22 Emily Ballara, University of Bristol**  
The effects of dietary supplementation on the thermal tolerance and life history traits of a beneficial insect parasitoid in a warming climate
- OP23 Frankie Amanesih, Natural Resources Institute, University of Greenwich**  
Fungal-derived technology for control of the invasive pest, *Drosophila suzukii*
- OP24 Josie Stuart, Royal Horticultural Society**  
Aphid vs predator – an exploration on aphid management for home gardeners
- OP25 Lauren Diepenbrock, University of Florida**  
Developing *Bulimulus* sp. management in Florida citrus
- OP26 Samuel Brizio, University of Bristol**  
Utilising supplementary feeding to enhance the winter longevity of a parasitoid and biological control agent
- OP27 Shimat Joseph, University of Georgia**  
Evaluating the Response of Ambrosia Beetles (*Xylosandrus* spp.) to Sub-Optimal Ethanol Concentrations

**OP28 Luke Nwosu, Atlantic Technological University, Galway City**  
Resistance studies of intact and decorticated cowpea varieties to *Callosobruchus maculatus* (Coleoptera: Chrysomelidae) infestations: The findings will add value to the grain industry

**OP29 Suman Barman, ICAR – Indian Agricultural Research Institute, New Delhi**  
Quick identification of the invasive melon fly, *Zeugodacus cucurbitae*, through a LAMP assay coupled with simplified one-step DNA extraction technique

## Invasive Species & Community Ecology

**OP30 Jessica Anderson, University of Stirling**  
Assessing the impacts of *Impatiens glandulifera* on terrestrial invertebrate communities in an ancient woodland habitat in the UK

**OP31 Maité Masciocchi, Instituto de Investigaciones Forestales y Agropecuarias Bariloche (IFAB) (CONICET – INTA)**  
Tasteful coexistence: niche partition in yellowjacket wasps

## Medical Entomology

**OP32 Afsana Al Latif, Jahangirnagar University**  
Starvation and Different Host Blood Meals Impacting Energy Reserve Modulation in *Culex quinquefasciatus* Say (Diptera: Culicidae)

**OP33 Jinsong Zhu, Virginia Tech**  
A Membrane-Tethered Axis of PVR and MET Drives Juvenile Hormone Signaling in *Aedes aegypti*

# Delegate information Ento25 online hub

Full delegate information, abstracts, online posters and presenter guidelines can be found on the Ento25 online hub. You will have received a password via email to access this. Please ask a member of the RES team if you are unable to access this.



## WiFi

Free WiFi is accessible throughout the venue using TIC Conferences. Please enquire at registration for the password.

## Social media

We encourage all delegates to share their experience and join the discussion on social media using #Ento25.

If you see the do not Tweet symbol on a slide or poster, please respect this and do not share this content more widely.

## Name badges

Please ensure you wear your name badges at all times, including at social events. You can add your pronouns and any social media handles in the spaces provided. If you have registered for the conference dinner, you will also find your dinner ticket in your name badge wallet.

## Mobile phones

Please ensure all mobile phones and devices are switched off or on silent before entering any sessions.

## Cloakroom

A cloakroom is available in the level 2 foyer. On the final day of the conference there will be space to leave small luggage. Members of RES staff will be in the registration area throughout the conference but please note personal belongings are left at your own risk.

## Accessible toilets

Accessible toilets are available on level 2 opposite the registration desk.

## Quiet room

Conferences can be overwhelming, it's important to take some time to relax after absorbing a lot of information and networking. A quiet room is available in Conference Room 8 throughout the event. Please do not use electronic devices in this room and be respectful if someone else is using the space.

## Prayer Room

A prayer room is situated on the Level 3 Mezzanine area, and this can be accessed at any point during the conference.

## First Aid

If you need first aid assistance, please find a member of the RES team who will be able to take you to an appointed first aider.

There is an Automated External Defibrillator on site and the venue staff are trained to use this should the need arise.

## Smoking/Vaping policy

Smoking or vaping is not permitted within the Technology and Innovation Centre.

## Fire alarm

There are no fire alarms scheduled during the conference, so any alarms should be treated as an emergency. In the case of an emergency, please follow staff to the nearest exit.

## Insurance

It is the responsibility of the delegate to obtain their own health and travel insurance. The organisers do not accept responsibility for any injury, lost or damaged items, or travel disruptions during your stay.







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### Things to do locally

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The city has a range of cultural attractions including many museums and art galleries offering free entry, such as the stunning Kelvingrove Art Gallery and Museum and the award-winning Riverside Museum.

Visitors can explore the works of artist and architect Charles Rennie Mackintosh, walk the city centre Art Mural Trail or take a stroll through one of the many parks and green spaces.

Glasgow is a UNESCO City of Music with over 150 live music events per week, plus a full calendar of other exciting events and festivals throughout the year.

The food and drink scene offers something for everyone, from traditional whisky pubs to fine dining, in a variety of lively neighbourhoods including Finnieston (SEC), the City Centre, the West End and Merchant City.

If you're extending your stay, Glasgow has excellent travel connections for exploring Scotland and an exciting selection of year-round tours leaving daily for the Scottish Highlands.

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We also have some special offers for delegates which can be found here:



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If you would like to raise any concerns, please speak to an RES staff member.

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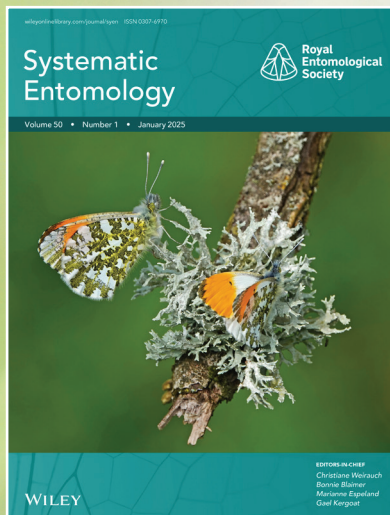
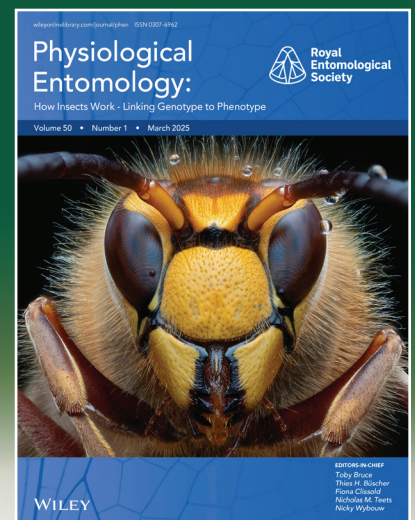
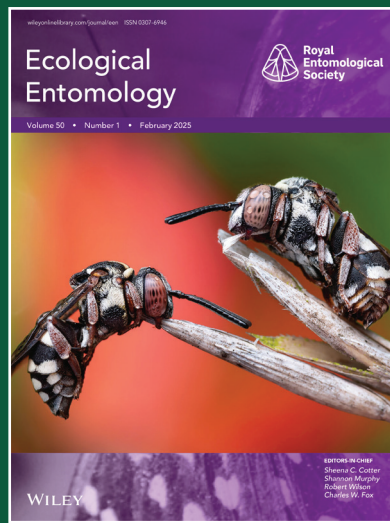
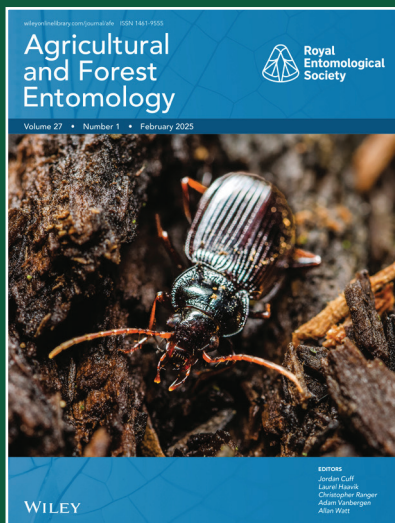


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