



North-west European Section



Winter meeting 2017 Programme

Monday 18th of December

8:30-9:30	Registration and put posters up
9:30-9:40	Welcome
9:40-10:40	Plenary: Chair Liz Duncan
	Professor Lars Chittka (Queen Mary University of London) "Are bees conscious?"
10:40-11:15	Morning tea break
11:15 – 12:15	Contributed session I: Chair Liz Duncan
	1. Richard Gill (Imperial College London) "Pesticide affects bee brain development resulting in adults becoming poorer learners"
	2. Hollie Marshall (University of Leicester)* "The search for genomic imprinting in the social insect, <u>Bombus terrestris</u> "
	3. Ash Samuelson (Royal Holloway, University of London)* "Urban land-use is linked to higher fitness in a key pollinator"
	4. Michael Bentley (University College London) "Hamilton's rule and the recovery of inclusive fitness at the level of the individual"
12:15-12:40	Poster session flash talks
12:40 – 1:45	Lunch and Poster session



1:45 - 3:00Contributed session II: Chair Eleanor Drinkwater 5. Sophie Evison (University of Sheffield) "Ecological effects of genetic diversity in host-parasite interactions" 6. Gino Brignoli (Queen Mary University of London) "Determining queen number in the ant Lasius flavus and considerations for possible causes of social polymorphism" 7. Sophie Hedges (University of Exeter)* "Population genetics and colony structure of island and mainland Bombus terrestris in the UK and France" 8. Jacob Johansson (Lund University Sweden & Imperial College London) "Eco-evolutionary modelling of bumblebee communities under environmental stress" 9. Isabel Fletcher (Queen Mary University of London)* "Effects of neonicotinoid pesticides exposure on gene expression in Bombus terrestris bumblebees" 3:00 - 3:30Afternoon tea break 3:30 - 4:30 Contributed session III: Chair Sophie Evison 10. Daisy Taylor (University of Bristol) "Identifying and understanding innovations in social evolution" 11. Sam Duckerin (University of Bristol)* "Bumblebee social network analysis and the effects of pesticides on colony organisation" 12. Stephanie Law (University of Liverpool)* "Spatial stratification of tropical ant assemblages: do ground ants restrict the foraging distribution of arboreal ants?" 13. Jack Howe (University of Copenhagen)* "Horizontal transmission of vertically inherited fungal symbionts of Acromyrmex leaf-cutter ants" 4:30 - 4:45 **Society Business Meeting** Could all members please stay for the business meeting. We will, among other things, cover plans for student travel grants for the International IUSSI meeting in Brazil for 2018 4:45 *– 7:30* Free time 7:30 - late **Conference Dinner at Ask Italian** The Grand Assembly Rooms Blake Street, York YO1 8QG



Tuesday 19th of December

9:30-10:30	Plenary: Chair Elva Robinson
	Professor Rebecca Kilner (University of Cambridge) "How behaviour changes evolution: experiments with burying beetles"
10:30-11:00	Morning tea break
11:00 – 12:15	Contributed session IV: Chair Dominic Burns
	14. Christopher Pull (Royal Holloway, University of London) "Co-founding ant queens prevent disease by performing prophylactic undertaking behaviour"
	15. Joanne Carnell (University of Sussex)* "The spatial and temporal distribution of bumblebee pathogens in their hosts and wider environment"
	16. Gregoire Pasquier (Royal Holloway, University of London)* "Individual learning performance and exploratory activity are linked to colony foraging success in a mass-recruiting ant"
	17. Victoria Blanchard (University of Exeter)* "Assessing heterothermic fever response in individuals of model bee species across the social spectrum"
	18. Alessandro Cini (University College London) "Sight in a clique, scent in society: plasticity in the use of nestmate recognition cues along colony development in the social wasp <u>Polistes dominula</u> "
12:15 – 1:15	Lunch and Poster session
1:15 – 2:30	Workshops / Discussion Groups There are two formal workshops/discussion groups running on epigenetics and social networks. We will also be running informal discussion groups based on participant interests.
2:30 - 3:00	Afternoon tea break
3:00 – 3:45	Contributed session V: Chair TBA
	19. Jonathan Shik (Centre for Social Evolution, University of Copenhagen) "Stable isotopes nutritionally link leafcutter ants and their co-evolved fungal symbionts"
	20. Jacob Holland (Hebrew University of Jerusalem) "Are bumblebees primitivley eusocial? The complexity of social complexity"
	21. Felicity Muth (University of Nevada, Reno) "Bees taste the pollen they collect"
3:45-4:00	Conference closing and prize giving



Poster presentations

Ryan Brock (University of East Anglia)*
 "Social organisation of the Tree Bumblebee (<u>Bombus hypnorum</u>)"

2. **Dominic Burns** (University of York)* "Analysis of dynamic networks of ant nests"

3. Eleanor Drinkwater (University of York)*

"How does individual personality modulate colony level personality? A study in Myrmica rubra"

4. **Matthew Hasenjager** (Royal Holloway, University of London) *"Information flow through honeybee networks during collective foraging"*

5. **Rosie Knapp** (University of Leeds)*

"Plastic male reproductive investment in the solitary megachilid, <u>Osmia bicornis</u>"

6. **Callum Martin** (Royal Holloway, University of London)*

"The effect of internal nectar reservoir concentration on commercial bumblebee foraging activity"

7. **Craig Perl** (University of Sussex)* *"Metabolic rate scaling and ventilation patterns in <u>Formica rufa"</u>*

8. **David Prince** (University of East Anglia) "The genetic basis of worker reproduction in <u>Bombus terrestris</u>"

9. **Christopher Pull** (Royal Holloway, University of London) "Testing bee cognition using a radial arm maze"

10. Jens Van Eeckhoven (University of Leeds)*

"From reproductive control to reproductive constraint; studying honeybee worker sterility through comparison with a related solitary species"