British Beekeepers Association

# Spring Convention 2023

# PROGRAMME

**Friday 21 April • Saturday 22 April • Sunday 23 April**

## Harper Adams University

Newport, Shropshire, TF10 8NB








# Spring 2023 Convention

## Lectures (25 - all 3 days)

**No booking. Entrance with wristband.**

See pages 7 & 13 for information, pages 14 & 15 for overview, pages 19 - 43 for presenters in alphabetical order together with summaries

## Workshops & Seminars (60+ over all 3 days)

**Need to be booked. Workshops carry an extra charge.**

See pages 7, 13 & 16/17 for more details. Pages 19 - 43 for presenters in alphabetical order together with summaries

## Trade Show (Saturday only)

**Entrance with wristband. Wristband for Trade Show only available (£6) on Saturday.**

See pages 5, 13, and 44 - 47 for more details.

## Exhibition by Not-for-Profit Organisations

**Friday and Saturday In the Regional Food Academy (RFA) building.**

See pages 13 and 44 - 47 for more details.

## Food & Drink

**Is excellent and available everywhere!**

See page 9 for more details.

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# British Beekeepers Association

# Spring Convention 2023

## 45th Year

### *Spring Convention Committee*

**Chair:** Joyce Nisbet ~ **Chief Steward:** Ray Green ~ **Lecture Convenor:** Norman Carreck

**Workshop Convenor:** Avis Marshall ~ **Trade Show Manager:** Anthony Rigby

**Catering:** Stephen Barnes ~ **Accommodation:** Lesley Jacques

**Marketing:** Pete Sutcliffe ~ **Graphics:** Roger Cullum-Kenyon ~ **Safety:** Andrew Easterbrook

**Speakers Corner:** Suzanne Bennett ~ **Web-pages:** Diane Drinkwater

## Please Note

- Arrangements will be subject to any Covid regulations in force at the time. Please see **www.bbka.org.uk** for updates.
- No Smoking in any Convention venues.
- The organisers reserve the right to change the programme without prior notice.
- The views expressed by speakers may not represent BBKA policy.
- The BBKA does not endorse any particular proprietary products nor encourage unlawful activity.
- No dogs other than Assistance Dogs on site. No pet animals to be left unattended in vehicles on site.
- Filming and photography will take place during the Convention. By attending, participants consent to being included in recordings that may appear in future publicity or educational material, worldwide in perpetuity, in all media known now or in the future.
- The BBKA will not be liable for any loss or damage unless caused directly by the BBKA's negligence.
- Harper Adams University Campus houses both livestock and agricultural machinery. Unless accompanied by a member of HAU staff, visitors must not enter livestock areas nor attempt to use any machinery.

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Spring 2023 Convention

Harper Adams University
Newport Shropshire TF10 8NB

# Welcome to the 45th BBKA Spring Convention



I am delighted to welcome you to the 45th Spring Convention at Harper Adams University in the Shropshire countryside. Following on from the success of last year's event, we are planning an even larger and more diverse range of talks, workshops and seminars this year.

I would like to begin by thanking the members of the Committee, lecturers and tutors, volunteer stewards, the staff of Harper Adams and Traders, exhibitors, sponsors and advertisers – who all play essential parts in the Convention.

Building on last year's success, we will again have two speakers from abroad presenting via video link. This allows all the components of a live lecture – including a question and answer session - without the travel!

The Trade Show on Saturday is integral to the Convention, with products on display to help you to put into practice the knowledge gained in talks and seminars. We strongly encourage you to plan your time so that you have the opportunity to browse and enjoy the Trade Show.

As last year, there is accommodation available on site, but you may need to book quickly to have a chance of a room on campus and rooms will only be available for those booking a three-night package of dinner, bed & breakfast. There is, however, plenty of bed & breakfast and hotel accommodation locally, within a few miles, particularly in Telford.

In the following pages, you will find information about tickets, catering, lectures, workshops, seminars and the Trade Show, plus other details to help you make the most of the event.

Whether you are a longstanding Convention participant or are new to the event, I look forward to welcoming you.

Joyce I Nisbet

**Joyce Nisbet** - Chair, Spring Convention Committee

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# Ticket Sales

**Participants must purchase an entry ticket (wristband) for general access to lectures, workshops, seminars and the Trade Show.** With a wristband (except 'Trade Show only' bands) there is no further charge for lectures and seminars, and to enter the Trade Show. Workshops carry an extra charge – see the next page.

## Booking Arrangements

From 30th January onwards, full wristband purchases, as well as bookings for workshops, seminars, Harper Adams accommodation, camper pitches and dinners, can be made on the same Spring Convention website, accessed by clicking the ***Book Here*** link on the Spring Convention Page of the BBKA website (**www.bbka.org.uk**). Booking in advance saves money and enables you to secure places on workshops and seminars to ensure a full and enjoyable Convention visit. Having selected your wristband, please scroll through other options (as above) which are in date order, add any you wish to your basket, check-out and pay. You will then have an electronic ticket(s) to bring on your phone or to print off. The 'In Advance' ticket rate ends on Tuesday 11th April. Thereafter, the 'On-the-Day' rate applies and tickets may only be bought at the Convention.

## Wristband Tickets

| | In Advance (until 11th April 2023) | 'On-the-Day' – from Reception, Faccenda Building, Harper Adams CARD PAYMENTS ONLY |
|---|---|---|
| **Convention Three-day Wristband Admits Fri 21st, Sat 22nd & Sun 23rd** | **£33** | **£38** |
| **Convention Wristband, Friday 21st only** | **£17** | **£20** |
| **Convention Wristband, Saturday 22nd only** | **£23** | **£28** |
| **Convention Wristband, Sunday 23rd only** | **£12** | **£15** |
| **Trade Show only Saturday 22nd** | **N/A** | **£6** |
| **18 – 25 Years (evidence of age required)** | **N/A** | **Half the relevant in-advance rate** |
| **17 Years and under** | **N/A** | **Free** |

The Convention ticket price (not Tradeshow only) includes a copy of the printed programme. Wristbands and programmes purchased before 26th March will be posted to you. After that date or for addresses outside UK, they will be for collection from the Convention Reception in the Faccenda building at Harper Adams.

**Trade Exhibition Day Tickets** Competitively priced at only £6 on-the-day (card payments only), these allow entrance on Saturday to the Trade Area, Speakers' Corner & Not-for-Profit Exhibition. Anyone wishing to attend lectures or workshops (subject to availability) may obtain an 'upgrade' by paying the difference of the cost of a full Convention three-day or Saturday ticket at the 'On-the-Day' rate.

Ticket enquiries may also be made via **bbka@bbka.org.uk** or by phone: **02476 696679**

**N.B. NO REFUNDS WILL BE GIVEN FOR ADVANCE OR LOST TICKETS (WRIST-BANDS) WHICH ARE NOT TRANSFERABLE AND MUST BE WORN AT ALL TIMES**

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# Convention Arrangements

## Lectures

Lectures **CANNOT be pre-booked**. Entry is free, with a full Convention wristband or full day ticket for the appropriate day (not Trade Show only). Be there in good time to ensure entry, though lectures will be streamed to an adjacent room in case there is exceptional demand. Latecomers will not be admitted but can watch the streamed talk. For more information on lectures and lecturers see pp 14-15 and 19-43.

## Workshops & Seminars

Places are limited so booking is essential to reserve your place. With a full Convention wristband or full day ticket for the appropriate day (not Trade Show only), seminars can be pre-booked at no extra charge. Workshops require an additional fee, as they may have small participant numbers, use consumable materials or are specialised and therefore costly to run. Please study the workshop abstract in the programme before booking – to check that it matches your expectations and that your chosen sessions don't coincide with lectures that you wish to attend. To be fair to other delegates, any booked participant whose plans change is asked to cancel in good time, whether for a payable workshop or 'no extra charge' seminar. Avis Marshall, the Workshop & Seminar Convenor, can be contacted for additional information via: **workshopconvenor@bbka.org.uk**

## Accommodation

Rooms at Harper Adams will be available on a first come-first served basis to those booking three nights dinner, bed and breakfast. Rooms are singles including an en-suite shower room at a three-night price of £258 per person. This price includes an excellent self-service breakfast each morning and ALL THREE DINNERS: Welcome Dinner (Thursday 20 April); Conference Dinner (Friday 21 April); and Quiz Dinner (Saturday 22 April). All meals are provided in the Refectory (marked 25 on the site plan at the rear of this programme). Adjacent bedrooms can be requested via the booking website. Room keys to be collected from the hospitality kiosk in the Refectory foyer.

Those purchasing three nights DB&B also need a Convention wristband, available separately.

Those wishing to stay fewer than three nights, or after all available rooms at Harper Adams are allocated, will need to book accommodation locally. There is bed & breakfast and hotel accommodation within a few miles, particularly in Telford. Those staying off-site are very welcome to book dinners at Harper Adams. Please see 'Forage' section overleaf for details. Limited showering and changing facilities will be available in building 98 on the Harper Adams plan.

## Camping & Caravanning

There are also facilities on-site for over-night **campers / caravans and camping**. There are no hook-up facilities or sluices but bathroom facilities including shared showers are available nearby, with limited cubicle showers as described above. Pitches cost £15.00 per night and are booked via the Convention website. Overnight camping / caravanning is only as directed and on display of the supplied permit. Overnighting in cars / vans / lorries, other than with display of a permit in the designated areas, is not allowed. Breakfast items will be available for purchase by campers / caravanners in the Graze cafe marked 24 on the site plan, from 08:00.

Further accommodation details are available from Lesley Jacques: **scaccommodation@bbka.org.uk**

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# Forage!

Harper Adams is renowned for its excellent catering. If you book three nights DB&B at Harper Adams, the dinners below are included. Those staying elsewhere are also welcome to pre-book dinners at the Convention. As described on the previous page, limited cubicle shower facilities are available at Harper Adams for any diners who wish a very quick shower/change between the educational programme and dinner. Join the relaxed Thursday Welcome Dinner to get your Convention off to a great start. Saturday's meal will be followed by a light-hearted quiz.

Unless you have booked a three-night DB&B package, dinners must be booked in advance using the ***Book Here*** link of the Convention web-site. Scroll down to book: **NB there are no other hot meals on-site after 14.00.**

All dinners, and breakfasts for those on DB&B, are provided in the Refectory (marked 25 on the site plan). Dinners start at 18.30:

- **Thursday 20th April, Welcome Dinner:** Tickets £19 each. Two course meal.
- **Friday 21st April, Conference Dinner:** Tickets £28 each. Three course set meal. Please choose your dinner companions at the hospitality kiosk in the Refectory foyer by noon on Friday.
- **Saturday 22nd April, Quiz Dinner:** Tickets £21 each. Two course meal, and a light-hearted Table Quiz.

**NB Cash Bar provided for each Dinner. Only drinks purchased from Harper Adams may be consumed at Dinners**

For catering enquiries, please contact Stephen Barnes **stephen.barnes@bbka.org.uk**

## Foraging – sites & times!

NB Card Payments only at all outlets.
'Graze' offers breakfast items, hot / cold meals, snacks and refreshments. However, 'Graze' closes at 16.30 on Thursday and hot meals are only available until 14.00 each day. After 14.00, light bites, refreshments and sandwiches will be available until Graze closes (see opening hours below). Hot evening meals will not be available on-site other than pre-booked Dinners.

Harper Adams residents can make tea / coffee in their kitchens. Tea, coffee, sandwiches, cakes and cold snacks are available from the outlets detailed below (except the Bar) when they are open. Please see map inside back cover of programme for locations of these outlets.

On Saturday, 12.00 – 14.30, there will be extra lunchtime seating (but no sales) in the Refectory.

| | Refectory | Graze | Kaldi Cafe | Teaching Block | RFA | Trade Show Cafe | Bar |
|---|---|---|---|---|---|---|---|
| Fri | 07.30 - 09.30 | 08.00 - 17.30 | 09.30 - 16.00 | 09.30 - 16.00 | 09.30 - 17.00 | | |
| | | | | | | | 17.30 - 23.00 |
| Sat | 07.00 - 09.30 (Seating only: 12.00-14.30) | 08.00 - 17.30 | 09.30 - 16.00 | 09.30 - 16.00 | 09.30 - 17.00 | 09.00 - 16.00 | 12.30 - 14.30 |
| | | | | | | | 17.30 - 23.00 |
| Sun | 07.30 - 09.30 | 08.00 - 15.00 | | | 09.30 - 13.30 | | |

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# Further Programme Features

## Not for Profit Exhibition

Friday 09.30 -17.30 - Saturday 09.30 – 16.30

Regional Food Academy Foyer

## Speakers Corner

**Saturday 10.30 – 16.00**

**The Welly Inn in the Students Union**

**An eclectic mix of short presentations followed by discussion - on the hour and half-hour. Informal talks from a range of speakers – free entry and no pre-booking required.**

**Please visit the BBKA website for updates and see the on-site displays on the day.**




## Poster Display

Friday 09.30 -17.30 - Saturday 09.30 – 16.30

A selection from leading researchers on display in the Weston Foyer.

Researchers will be with their posters on Friday 12.45 – 13.45

## BBKA Module Exam "Drop-In" Sessions

Saturday 13.00 – 13.30 & 15.30-16.00. No need to book. Weston Exhibition area

Since April 2021 candidates have been able to take the BBKA Module Examinations online. However, it can be difficult to choose this method without first trying out the electronic exam system. This is an opportunity to find out what is involved.

## Campus Walks and Walking around Harper Adams

Call in at Faccenda Reception for information about an "at your own pace" route around the Harper Adams Campus, plus walks in the surrounding countryside.



## Find your way around the Convention Orientation ~~Flights~~ – sorry, just walks!

Although the site plan at the rear of this programme is easy to follow. If this is your first visit to the Convention, to save time later, you may wish to join a short guided tour of the main lecture theatres, workshop & seminar venues and catering outlets. Short walks, lasting approx. 30 minutes, will leave from Faccenda Reception (marked 24 on the site plan) on:

**Thursday at 17.00 and Friday and Saturday at 09.00.**

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# Not for Profit Exhibition & Trade Show (See Pp 44-47)

On both Friday 21st and Saturday 22nd April, attendees are welcome to browse the Not for Profit exhibition, including the main BBKA stand, in the Regional Food Academy foyer.

Then on **Saturday 22nd only**, 08.30 – 16.30 you can add to your beekeeping kit in the Commercial **Trade Show**, in the Sports Hall and Students Union. Thanks to our traders, advertisers and sponsors we are able to keep the cost of Convention tickets competitive. There will be time before and between lectures to buy what you need and to see what's new. Although many beekeepers attend the Convention principally for its educational elements, those preferring more relaxed retail therapy may wish to plan to miss a lecture. Anyone wishing to patronise only the Trade Show, can buy a £6 'Trade Show only' wristband on Saturday.

All enquiries concerning the Trade Show should be made to the Trade Show Manager: Anthony Rigby – **sctradeshow@bbka.org.uk**

# Assistance

If you might need assistance on campus, such as help to evacuate in the unlikely event of an emergency, please advise a member of staff in reception on arrival, and the lead steward for any workshop or lectures you are attending. If you would like to discuss your requirements in private, please contact Joyce Nisbet, **joyce.nisbet@bbka.org.uk** Tel: **07798 680398**

# Lectures & Filming

**(see overleaf and pages 19-43 for details of speakers and topics)**

Lectures **CANNOT be pre-booked**. Entry is free, with a full Convention wristband or full day ticket for the appropriate day (not Trade Show only). Be there in good time to ensure entry, though lectures will be streamed to an adjacent room in case there is exceptional demand. Latecomers will not be admitted but can watch the streamed talk.

**Thanks to generous sponsorship from the Worshipful Company of Wax Chandlers, lectures in the Weston Lecture theatre on Saturday will be filmed, and in due course will be available on the BBKA YouTube Channel. Perhaps something to bear in mind if you are struggling to choose between competing presentations and the Tradeshow on Saturday.**

# Workshops & Seminars

**(See pages 16-17 and 19-43 for details of speakers and topics)**

This year our programme of workshops and seminars has been enlarged even further. It includes a range of topics from those essential for beginners to those of interest to the most experienced beekeepers.

We are making a distinction this year between "Workshops" – which carry a fee to cover materials and resources - and "Seminars" – which have no extra charge and usually involve no "hands on" practical activities (although you should expect to take an active part in the discussion).

Both Workshops and Seminars must be booked to ensure a place, and the Workshop fee must be paid in advance. This can all be done on-line via the BBKA web-site as detailed on page 5. Please consult the 'Workshops and Seminars At A Glance' section (p.16) and the notes on the course contents and leaders on pages 19 - 43 and refer to the schedules for details, timings and fees payable.

Please remember that you also need a Spring Convention wristband for the day/days on which your workshop or seminar is taking place!

# Lectures

(see pages 19 - 43 for details of speakers and topics)

## Friday, 21st April

### Regional Food Academy Lecture Theatre

| Timing | Level | Lecturer | Title |
|---|---|---|---|
| 10.00 – 11.00 | I | Fani Hatjina | Mating Control – the afternoon mating system 1 |
| 11.30 – 12.30 | A | Joe Roberts | Data-driven insect monitoring 2 |
| 14.00 – 15.00 | I | Martin Bencsik | Quantifying the bees' reaction to knocking the hive 1 |
| 15.30 – 16.30 | B | Pete Sutcliffe | Avoiding swarming in your first two years 3 |

### Weston Lecture Theatre

| | | | |
|---|---|---|---|
| 10.00 – 11.00 | A | Anne Rowberry | Asian Hornets: a major, imminent threat to our bees 4 |
| 11.30 – 12.30 | I | Victoria Soroker | The COLOSS Varroa Task Force 1 |
| 14.00 – 15.00 | S | Giles Budge | Foulbrood: spread and control 5 |
| 15.30 – 16.30 | S | Fani Hatjina | The effect of veterinary medicines on bees 1 |
| 17.00 – 18.00 | I* | Randy Oliver | Science and Beekeeping (virtual lecture) 1 |

## Saturday 22nd April

### Teaching Block Lecture Theatre

| Timing | Level | Lecturer | Title |
|---|---|---|---|
| 10.00 – 11.00 | A | Tom Pope | Are we there yet? 50 years of IPM in agriculture |
| 11.30 – 12.30 | A | Stephen Case-Green | Commercial Beeswax production 6 |
| 14.00 – 15.00 | B | Lynfa Davies | Bonny babies or languid larvae? |
| 15.30 – 16.30 | I | Andy Pedley | Food safety for the beekeeper |

### Regional Food Academy Lecture Theatre

| Timing | Level | Lecturer | Title |
|---|---|---|---|
| 10.00 – 11.00 | S | Mike Garratt | Pollination of crops – the role of wild pollinators 7 |
| 11.30 – 12.30 | I | Ollie Visick | Wild honey bees in Britain 1 |
| 14.00 – 15.00 | A | Victoria Soroker | Beekeepng in Israel – practice and challenges 1 |
| 15.30 – 16.30 | S | Jane Stout | Plant-pollinator interactions 1 |

### Weston Lecture Theatre

| Timing | Level | Lecturer | Title |
|---|---|---|---|
| 10.00 – 11.00 | S* | Giles Budge | Chronic bee paralysis 8 |
| 11.30 – 12.30 | A* | Stephen Martin & | Path to varroa resistance in the UK 9 |
| 14.00 – 15.00 | A* | Chris Park | "The Feminine Monarchie" 1623 & Charles Butler 10 |
| 15.30 – 16.30 | I* | Martin Bencsik | A novel honey bee signal 1 |
| 17.00 – 18.00 | I* | Samuel Ramsey | Treating Tropilaelaps (virtual lecture) 11 |

***N.B.*** *Knowledge Level:* **A** *= All;* **B** *= Beginners;* **I** *= Intermediate;* **S** *= Senior*
** = Lecture to be filmed*

# Lectures

## (see pages 19 - 43 for details of speakers and topics)

## Sunday 23rd April

### Weston Lecture Theatre

| Timing | Level | Lecturer | Title |
|---|---|---|---|
| 10.00 – 11.00 | A | Stephen Fleming | Isles of Scilly Game of Drones springs surprises |
| 11.30 – 12.30 | A | Jane Stout | Pollinator conservation in Ireland **1** |
| 13.30 – 14.30 | S | Mike Garratt | Understanding and managing apple pollination **12** |

***N.B.*** *Knowledge Level:* **A** *= All;* **B** *= Beginners;* **I** *= Intermediate;* **S** *= Senior*
** = Lecture to be filmed*

## Grateful thanks to our sponsors

Sponsors indicated by number in red after lecture title.

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4 ABKA

5 BDI

6 Worshipful Company of Wax Chandlers

7 Hampshire Beekeepers Association

8 Bucks County BKA

9 Bee Improvement & Bee Breeders Association BIBBA

10 BeeCraft The Independent Voice of British Beekeeping

11 VITA beehealth

12 NDB National Diploma in Beekeeping

ABELO

# Workshops & Seminars at a Glance

| Ref. | Level | Fee | Title | Tutors | Room | Time |
|---|---|---|---|---|---|---|
| | | | **Friday 21st April 2023** | | | |
| S1 | I | Free | Comb Change: Why What and How? | Jane Medwell & Alex Wray | WF1 | 09.30 - 11.00 |
| S2 | I | Free | Showing Honey | Debbie Smith | WF2 | 09.30 - 11.00 |
| S3 | I | Free | Swarm Prevention and Control | Jim & Val Vivian-Griffiths | TG5 | 09.30 - 11.00 |
| W4 | B | £205 | Build Your Own Hive | Oliver St. John (Meet TB Foyer) | E206 | 09.30 - 16.00 |
| W5 | A | £30 | Hedge Laying | Mark Hall & Henry Johnson | Facc Recep 09.45 | 10.00 - 16.00 |
| W6 | A | £65 | Skep Making | Chris Park (Meet Facc Recep 09.45) | Beddington | 10.00 - 16.00 |
| W7 | I | £35 | Microscopy for Nosema and Acarine | Julie Coleman & Lynne Ingram | ECG1 | 10.00 - 12.30 |
| W8 | S | £55 | Instrumental Insemination of Honey Bees | Michael Collier | WG3 | 10.00 - 16.00 |
| S9 | A | Free | Selling Cosmetics and the Law | Sara Robb | WG4 | 10.00 - 12.00 |
| S10 | B | Free | Introduction to BBKA Basic Assessment | Jenny Morgan | TF4 | 10.00 - 12.00 |
| W11 | A | £18 | Comb to Candle | Shirley & Richard Bond (Meet TB Foyer) | E207 | 10.00 - 12.00 |
| S12 | S | Free | Running a Weekend Queen Rearing Course | Sean Stephenson | WF1 | 11.30 - 13.00 |
| S13 | A | Free | Drone Congregation Areas | Stephen Fleming | WF2 | 11.30 - 13.00 |
| W14 | I | £6 | Cut Comb, Chunk Honey & Sections | Andy Anderson | TF4 | 13.00 - 15.00 |
| W15 | I | £45 | Honey Bee Anatomy & Dissection | Marin Anastasov & Lynfa Davies | ECG1 | 13.30 - 17.30 |
| S16 | I | Free | Commercial Queen Rearing & Bee Breeding | Luke & Suzie Hutchinson | WF1 | 13.30 - 15.00 |
| S17 | I | Free | Preparing for BBKA Module 2 | John Hendrie | WF2 | 13.30 - 15.30 |
| S18 | I | Free | Observation Hive Management | Alison Wakeman | TG5 | 13.30 - 15.00 |
| W19 | A | £15 | Making Wax Wraps | Angela Kirk (Meet TB Foyer) | E207 | 13.30 - 15.00 |
| W20 | I | £25 | Recapping for Varroa Detection | Stephen Martin | ECG2 | 14.00 - 16.00 |
| W21 | A | £18 | Super Natural Formulations | Sara Robb | WG4 | 14.00 - 16.30 |
| S22 | A | Free | How to Make Beeswax Products | Stephen Case-Green | WF1 | 15.30 - 17.00 |
| S23 | I | Free | More Than a Hobby | Rhona Toft | TF4 | 15.30 - 17.00 |
| S24 | A | Free | A Bountifulness of Botany | John Reade | TG5 | 15.30 - 17.00 |
| S25 | S | Free | An Association Apiary - What's it for? | Richard Bond | WF2 | 16.00 - 17.30 |
| | | | **Saturday 22nd April 2023** | | | |
| W26 | I | £35 | Making Pollen Slides | Jenny Morgan | ECG1 | 09.30 - 12.00 |
| W27 | A | £12 | Journey Through UK Mead | Luke & Suzie Hutchinson | WF1 | 09.30 - 11.00 |
| S28 | B | Free | Newbies and New Bees | Lynfa Davies | WF2 | 09.30 - 11.00 |
| S29 | I | Free | Swarm Prevention and Control | Jim & Val Vivian-Griffiths | TG8 | 09.30 - 11.00 |
| W30 | A | £80 | Introduction to Using a Chainsaw | Clive Harrison | Facc Recep 09.45 | 10.00 - 16.00 |

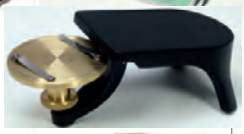
# Workshops & Seminars at a Glance

| Ref. | Level | Fee | Title | Tutors | Room | Time |
|---|---|---|---|---|---|---|
| | | | **Saturday 22nd April 2023** | | | |
| W31 | A | £18 | Beeswax Flower Creations | Sue Rawlings (Meet Facc Recep 09.45) | Beddington | 10.00 - 12.00 |
| W32 | S | £18 | How to Graft | Marin Anastasov | WG3 | 10.00 - 12.00 |
| W33 | A | £18 | Super Natural Formulations | Sara Robb | WG4 | 10.00 - 12.30 |
| W34 | A | £15 | Making Wax Wraps | Angela Kirk (Meet TB Foyer) | E206 | 10.00 - 11.30 |
| W35 | A | £18 | Comb to Candle | Shirley & Richard Bond (Meet TB Foyer) | E207 | 10.00 - 12.00 |
| S36 | I | Free | Preparing for BBKA General Husbandry | John Hendrie | WF1 | 11.30 - 13.30 |
| S37 | B | Free | Introduction to BBKA Basic Assessment | Julie Coleman | WF2 | 11.30 - 13.30 |
| S38 | A | Free | Mind your Back! | Geoff Blay | TG5 | 11.30 - 13.00 |
| S39 | B | Free | Handling | Lynne Ingram | TG8 | 11.30 - 13.00 |
| W40 | I | £12 | Rendering Wax & Making Foundation | Andy Anderson (Meet TB Foyer) | E207 | 13.00 - 15.00 |
| S41 | B | Free | Showing Wax | Debbie Smith | TG5 | 13.30 - 15.00 |
| S42 | I | Free | Comb Change: Why What and How? | Jane Medwell & Alex Wray | TG8 | 13.30 - 15.00 |
| W43 | A | £12 | Making Honey Ferments | Angela Kirk (Meet TB Foyer) | E206 | 13.30 - 15.00 |
| W44 | A | £25 | Botany in Practice | John Reade | ECG1 | 14.00 - 15.30 |
| W45 | A | £12 | Journey Through UK Mead | Luke & Suzie Hutchinson | WF1 | 14.00 - 15.30 |
| W46 | A | £18 | Spring Cleaning | Sara Robb | WG4 | 14.00 - 16.30 |
| S47 | A | Free | Varroa Resistance Symposium | Stephen Martin & Others | TG5 | 15.30 - 17.30 |
| S48 | B | Free | Queen Raising on a Small Scale | Jim & Val Vivian-Griffiths | TG8 | 15.30 - 17.00 |
| W49 | I | £12 | Rendering Wax & Making Foundation | Andy Anderson (Meet TB Foyer) | E207 | 15.30 - 17.30 |
| | | | **Sunday 23rd April 2023** | | | |
| S50 | I | Free | Intro to BBKA Microscopy Assessment | Julie Coleman | WF1 | 09.30 - 11.00 |
| S51 | I | Free | Introduction to BBKA H/B Breeding | Marin Anastasov | WF2 | 09.30 - 11.00 |
| S52 | A | Free | Intro to BBKA Plants and Pollinators | Sean Stephenson | WG3 | 09.30 - 11.00 |
| W53 | A | £18 | Spring Cleaning | Sara Robb | WG4 | 09.30 - 12.00 |
| S54 | S | Free | Education & Training for Beekeepers | Jane Medwell & Alex Wray | TF4 | 09.30 - 11.00 |
| S55 | I | Free | Sustainable Varroa Control | Lynfa Davies | TG5 | 09.30 - 11.00 |
| W56 | A | £12 | Making Honey Ferments | Angela Kirk (Meet TB Foyer) | E206 | 09.30 - 11.00 |
| W57 | I | £18 | Advanced Candle Making Techniques | Shirley & Richard Bond (Meet TB Foyer) | E207 | 09.30 - 12.00 |
| S58 | A | Free | Senses of the Honey Bee | John Hendrie | WF1 | 11.30 - 13.00 |
| S59 | A | Free | Oil Seed Rape - A Blessing or a Curse? | Geoff Blay | WF2 | 11.30 - 13.00 |
| S60 | I | Free | Food Safety Law | Andy Pedley | WG3 | 11.30 - 13.30 |
| S61 | S | Free | Breeding Black Native Bees | Michael Collier | TF4 | 11.30 - 13.00 |
| S62 | A | Free | The truth about honey? | Lynne Ingram | TG5 | 11.30 - 13.00 |
| S63 | I | Free | Introducing BBKA H/B Health Certificate | Anne Rowberry (Meet TB Foyer) | E206 | 12.00 - 13.30 |

**N.B.** Knowledge Level: **A** = All; **B** = Beginners; **I** = Intermediate; **S** = Senior All Workshops and Seminars should be booked in advance. See pages 5 & 7 for booking information. Fees where payable must be paid in advance when booking.

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# Speakers and Topics

**(listed in alphabetical order by surname)**

**Locations:** TBL = Teaching Block Lecture Theatre
RFA = Regional Food Academy
WLT = Weston Lecture Theatre

**Level:** A = All, including non-beekeepers
B = Beginners
I = Intermediates
S = Seniors



**Marin Anastasov NDB** started beekeeping in his teens and developed initial beekeeping knowledge and skills while studying towards a BSc in Animal Science. Later, he completed an MSc in Organic Farming at Aberdeen University. He is passionate about sustainable food production and his career has been in organic food and farming. He has kept bees for over 20 years and currently manages 30 colonies in Gloucestershire. Marin is a Master Beekeeper, gained his NDB in 2017, is a Trustee of Gloucestershire Beekeepers Association and on the BBKA Examinations Board. Marin co-authored and led the implementation of the BBKA Certificate in Honey Bee Breeding.

**I Workshop: Honey Bee Anatomy & Dissection – with Lynfa Davies**

W15: Friday 21 April 13:30 - 17:30 Elizabeth Creek Laboratories ECG1 *£45*

Do you know what the hypopharyngeal glands, the honey crop or the ovaries of a worker bee look like, and why the "blood" of the honey bee is not red? The participants in this workshop will have the opportunity to learn and practise the techniques for dissecting honey bees, to explore and learn about the different anatomical features and their functions. The workshop is for intermediate level of beekeepers and particularly useful for those studying towards the BBKA Microscopy certificate, BBKA Module 5 or those who are simply interested in getting more detailed knowledge of honey bee biology and function.

**S Workshop: How to Graft**

*W32: Saturday 22 April 10:00 - 12:00 Weston Building WG3* *£18*

Grafting is a commonly used method of queen rearing, practised widely around the world. This workshop is aimed at advanced level beekeepers who are interested in queen rearing and improving their grafting skills. The workshop will provide participants with the background information and practical skills to select suitable larvae for grafting and transfer them into queen cups, using a variety of grafting tools. The workshop will be particularly beneficial to those looking to gain the BBKA Advanced Husbandry Certificate or the BBKA Honey Bee Breeding Certificate.

**I Seminar: Introduction to BBKA Honey Bee Breeding Certificate**

*S51: Sunday 23 April 09.30 - 11:00 Weston Building WF2* *£Free*

The BBKA Certificate in honey bee breeding, was added to the portfolio of beekeeping assessments in 2018. This seminar is aimed at intermediate level beekeepers, who are interested in queen rearing and honey bee breeding and are potential candidates for this qualification. We will discover the purpose and rationale behind this Certificate, the content of the syllabus, the format of the assessment, as well as what future candidates need to do, to prepare and be successful in taking the assessment. Honey bee pedigrees, kinship, queen rearing timetable and common methods of queen rearing will also be discussed.



**Andy Anderson** started beekeeping more than 15 years ago and is now working towards his Scottish Beekeepers' Association judging certificate. He has won many trophies at the National Honey Show, Scottish National Honey Show and the Royal Highland Show. Following early retirement six years ago, he now works part time at the NatWest Gogarburn headquarters in Edinburgh, managing the apiary there, and also training interested staff to prepare for the Basic Beekeepers Certificate. He migrates his own hives to OSR, phacelia, lime and heather crops.

**Workshop: Cut Comb, Chunk Honey & Sections**

*W14: Friday 21 April 13:00 - 15:00 Teaching Block TF4* *£6*

This presentation will explore techniques that beekeepers can use to help their bees to produce comb honey, in its different forms, for sale or the show-bench. Tips to avoid common mistakes will be passed on, and participants will each make up a square section, so that they know how to make these correctly.

**Workshop: Rendering Wax & Making Foundation**

*W40: Saturday 22 April 13:00 - 15:00 Teaching Block E207 (Meet TB Foyer)* *£12*

*W49: Saturday 22 April 15:30 - 17:30 Teaching Block E207 (Meet TB Foyer)* *£12*

BEESWAX THANKS TO ABELO

This workshop will take participants from unprocessed wax to refined wax suitable for many purposes, including candles and foundation. Wiring foundation will also be demonstrated. Each participant should expect to take away a sheet of foundation they have made.

**Please wear old clothes or overalls – wax is difficult to remove from fabrics.**






**Prof. Martin Bencsik** is a physicist, originally involved in Magnetic Resonance Imaging - a field of science he has now retired from to focus on the vibrations emanating from honey bees. In 2011 he pioneered the use of accelerometers in the exploration of the vibrational landscape emanating from individual honey bees, and the entire colony. Although today the technology is still unaffordable, it has led year after year to new discoveries which are slowly proving more and more exciting. Maybe not a giant leap for mankind yet, but a small step for man is presently being attempted…

**I Lecture: Quantifying the honey bee colony's reaction to a brief external knock**
*Friday 21 April 14.00 - 15.00 – RFA*
**Sponsored by The C.B. Dennis Trust**
Any beekeeper can probe their colony by knocking on it briefly, and by listening to the colony's response. In our work, we have implemented a systematic approach to measure the colony's response objectively and quantitatively. We will show the method we have ended up using, and the results we are obtaining on a collection of seventeen hives. The measurement is promising as a new non-invasive way of assessing two independent aspects of the physiological status of the colony, which I will discuss.

**I Lecture: A quantitative examination of a common, previously unpublished honey bee vibrational signal**
*Saturday 22 April 15.30 - 16.30 – WLT*
**Sponsored by The C.B. Dennis Trust**
Beekeepers with a keen interest in listening to their bees will have occasionally heard a sound emanating from their colonies resembling that produced by a cat purring. The signal is common, but has never been referred to in the published literature, and if understood could have important implications in the non-invasive monitoring of the physiological status of a honey bee colony. I will show careful examination of the features of the signal, will provide statistics on its occurrences, and will discuss the possible significance of the signal.



**Geoff Blay** Is a Master beekeeper and bee farmer with around 70 colonies in southeast Somerset and northern Dorset. He has presented to local beekeeping associations; at previous BBKA Spring Conventions; and is active in teaching both new and experienced beekeepers. Geoff also has a Diploma in personal training, including specialisations in corrective exercise and senior fitness training.

**A Seminar: Mind Your Back**
*S38: Saturday 22 April 11:30 - 13:00 Teaching Block TG5* *£Free*
Geoff will consider the stresses and strains of beekeeping, and how to make life easier! In particular, the workshop will cover various techniques to help keep you and your back healthier. It includes (amongst other things) methods of separating boxes to get clean lifts, basic techniques for safe lifting, preparation including posture and stability and the handling of heavy boxes at low and high heights. Participants will have the opportunity to take part in some gentle postural exercise – nothing more strenuous than during normal beekeeping activities.

**A Seminar: Oil Seed Rape - A Blessing or a Curse?**
*S59: Sunday 23 April 11:30 - 13:00 Weston Building WF2* *£Free*
The seminar looks at the opportunities oil seed rape provides and the problems it causes for beekeepers including colony management, swarm pressures and honey processing.



**Richard Bond** took up beekeeping in 2010. Since then, he has achieved all but two modules, as well as Advanced Husbandry, and Microscopy. He is currently Chair of HRBKA and on the Committee of Darlington BKA. Richard was elected to the BBKA Executive in 2020 for a 3 year term and was until January, Chair of the Research Technical and Environment committee. He and his wife, Shirley, keep about 20 colonies and are heavily involved with training beekeepers.

**S Seminar: An Association Apiary – What's it for?**
*S25: Friday 21 April 16:00 - 17:30 Weston Building WF2* *£Free*
A seminar exploring the Association Apiary: what it's for, building one and using it. Some suggested practices for hygiene and risk mitigation will be presented. The seminar will be a dialogue of participants led by the tutor, in order to maximise the value of an Apiary to the Association. It would be useful if participants could bring copies of their association apiary rules and any other pertinent documents.



**Shirley Bond** is a master beekeeper and a member of the BBKA Exam Board. Shirley and her husband, Richard, are both involved with teaching beekeeping and associated skills at local and National levels. They have kept bees since 2010 and have never traded in any wax. They are passionate about making the most of beeswax and have won prizes for wax and candles at local, regional, and national levels. They have also run many courses to teach others these techniques.

**A Workshop: Comb to Candle - Shirley and Richard Bond**
*W11: Friday 21 April 10:00 - 12:00 Teaching Block E207 (Meet TB Foyer)* *£18*
*W35: Saturday 22 April 10:00 - 12:00 Teaching Block E207 (Meet TB Foyer)* *£18*
BEESWAX THANKS TO ABELO
This workshop will demonstrate some simple techniques to clean and refine wax suitable for making candles. Temperature control and the safe processing of wax will be covered, together with the importance of wick selection and preparation for use. Each participant will produce a moulded and a rolled candle to take home.
**Please wear old clothes or overalls – wax is difficult to remove from fabrics.**

**I Workshop: Advanced Candle Making Techniques – Shirley & Richard Bond**
*W57: Sunday 23 April 09:30 - 12:00 Teaching Block E207 (Meet TB Foyer)* *£18*
BEESWAX THANKS TO ABELO
This workshop will involve participants producing dipped candles which you will take home. You will also make a two coloured candle by moulding. You will learn how to choose and prepare candle-wick. We will also demonstrate some of the qualities which judges look for in show candles.
**Please wear old clothes or overalls - wax is difficult to remove from fabrics.**



**Prof. Giles Budge** obtained his degree in Molecular Biology and Genetics from the University of East Anglia and his PhD in Molecular Plant Pathology from the University of Reading. He previously worked for Horticulture Research International, ADAS, Central Science Laboratory and Fera, before moving to Newcastle University in 2018 to set-up a pathology laboratory specialising in crop and bee health. Giles worked as the National Bee Unit research co-ordinator for 12 years, responsible for an applied programme of research. He notably led a project on European foulbrood. Research interests include combining experimental biology, molecular detection and modelling to improve understanding of disease epidemiology. Giles has provided expert evidence

to government policy reviews surrounding pollinator health, is an independent science advisor to the Defra Bee Health Advisory Forum, and a Fellow of the Royal Entomological Society. Recently Giles has worked on projects to better understand chronic bee paralysis as well as working with the APHA NBU to track foulbrood sequence types and improve foulbrood surveillance across England & Wales.

**S Lecture: Foulbrood: How best to spread it, and how not to control it!**
*Friday 21 April 14.00 - 15.00 – WLT*
**Sponsored by Bee Diseases Insurance**
American foulbrood (AFB) and European foulbrood (EFB) have been under statutory control in England and Wales since the 1940s. The recorded annual colony prevalence of AFB has reduced about 100 times from 1940s to only >0.2% today, whereas EFB levels have fluctuated from 0.05% to 4% as different control measures and surveillance systems have been deployed. Giles will run through how our understanding of foulbrood epidemiology has evolved as we attempted new control methods, implemented new technologies like GPS and lateral flow devices, and deployed typing schemes for the causative bacteria at a national level. He will share his thoughts on how these diseases are spread and which management practices work best for their control.

**S Lecture: Chronic bee paralysis: A re-emerging disease of the honey bee**
*Saturday 22 April 10.00 - 11.00 – WLT*
**Sponsored by Bucks County Beekeepers' Association**
Chronic bee paralysis is a serious disease of the honey bee that can lead to colony loss in 40% of cases. The disease is caused by a virus which is able to replicate in the nerves of the honey bee, leading to trembling and shaking symptoms. Infected bees die within 5-7 days after contracting the virus, causing mounds of dead bees at the colony entrance. Giles will discuss recent results that suggest chronic bee paralysis has re-emerged across England and Wales over the last two decades, and will share the most recent results on this topic from the honey bee research team at Newcastle University.



**Dr Stephen Case-Green** is technical director at the British Wax Refining Co. Ltd. His background is in chemistry, having received a BSc from Kings College, London and a DPhil from the University of Oxford. After seven years' post-doctoral research in a human molecular genetics group at Oxford, he took up his current position in 1999. British Wax supplies a large variety of waxes and wax-based products.

**A Seminar: How to Make Beeswax Products**
*S22: Friday 21 April 15:30 - 17:00 Weston Building WF1* *£Free*
This seminar will involve an introduction to materials that can be mixed with beeswax: waxes, resins, colours, oils and other materials. While no practical demonstrations will be performed, pre-made samples will be available to show what can be achieved.

**A Lecture: Commercial beeswax production**
*Saturday 22 April 11.30 - 12.30 – TBL*
**Sponsored by The Worshipful Company of Wax Chandlers**
This lecture will include how beeswax is sourced, its journey through refining and blending to the end user. The methods used will be described, together with the reasons why the properties of beeswax make it ideal in many applications.



**Julie Coleman** has kept bees for 20 years and runs 12-20 hives in two apiaries. She worked as an environmental microbiologist for 30 years before teaching microbiology and biology in Further and Higher Education. She passed the BBKA Microscopy assessment in 2016 and has since trained as an assessor for both the Basic and General Husbandry assessments. She became a Master Beekeeper in 2017 and is currently a BBKA Trustee.

**I Workshop: Microscopy for Nosema and Acarine – with Lynne Ingram**
*W7: Friday 21 April 10.00 – 12.30 Elizabeth Creek Laboratories ECG1* *£35*
After a short introduction and demonstration of the techniques, the main part of the workshop will be hands-on. Participants can bring samples of their own bees (30) for Nosema detection and will have plenty of time in the laboratory to practise the preparation of bees for acarine dissection and presentation. A knowledge of the set-up and use of microscopes would be an advantage, but help will be given for participants not familiar with their use.

**B Seminar: Introduction to BBKA Basic Assessment**
*S37: Saturday 22 April 11.30 – 13.30 Weston Building WF2* *£Free*
The aim of this course is to help prepare for the Basic Assessment. It will include an overview of the syllabus and a step-by-step narrative of the assessment itself with typical questions asked by assessors. Participants will need to have a full season's beekeeping experience prior to undertaking this course.

**I Seminar: Introduction to BBKA Microscopy Assessment**
*S50: Sunday 23 April 09.30 - 11:00 Weston Building WF1* *£Free*
This seminar will introduce the BBKA microscopy assessment syllabus, the knowledge and preparation required by the candidates as well as what to expect on the day of the assessment. We will look at equipment needed and examples of good and bad slide preparation and reasons for success and failure. Participants should be familiar with the use of microscopes but are not expected to be experts at slide preparation or dissection. This seminar will fit well with other practical workshops that will give potential candidates hands on experience.



**Michael Collier** trained at Fairview College, Commercial Beekeeping Course, Canada and for one year at the National Bee Unit with Vince Cooke. He emigrated to Canada where he managed 3000 hives for 5 years. He also has experience of a large queen rearing operation in California and is now one of the largest queen producers in the UK. Michael trained with Dr Fisher in Germany on an Instrumental Insemination course and also with Sue Cobey, Advanced Instrumental Insemination in the USA.

**S Workshop: Instrumental Insemination of Honey Bees**
*W8: Friday 21 April 10:00 - 16:00 Weston Building WG3* *£55*
Practical instrumental insemination of queen bees and collection of semen. This workshop will give an overview of instrumental insemination covering the instruments used, semen collection, as well as the instrumental insemination of queens. There will also be a session on queen and drone selection.

**S Seminar: Breeding Black Native Bees**
*S61 Sunday 23 April 11:30 - 13:00 Teaching Block TF4* *£Free*
This seminar will focus on how Michael breeds British native black bees from Northumberland, which are 94% pure.



**Lynfa Davies NDB** is a Master Beekeeper and in 2019 was awarded the National Diploma in Beekeeping. She is a member of Aberystwyth and District BKA where she regularly gives talks and leads training sessions on practical aspects of beekeeping. She is a regular speaker at events and association meetings and her articles appear in the beekeeping press. Lynfa is currently working on a contract for the Animal and Plant Health Agency, as part of the Healthy Bees Plan 2030, to deliver online training modules for intermediate beekeepers. One of these modules is on managing varroa.

**B Seminar: Newbies and New Bees**

*S28: Saturday 22 April 09:30 - 11:00 Weston Building WF2* *£Free*

This seminar will focus on where to get bees from and what type of bees to get. We will discuss the importance of locally adapted bees and the problems with bringing bees from other areas into your locality. We will also discuss what you should expect to see in a nucleus or colony that you acquire and how to care for that colony when you get it home. Disease management is essential as part of this, and we will cover the diseases to look out for during your inspections.

**B Lecture: Bonny babies or languid larvae: which do you have in your hive?**

*Saturday 22 April 14.00 – 15.00 TBL*

Kids get sick and they are not able to articulate what is wrong with them. Some illnesses cause minor problems while others are deadly serious. Knowing what you are faced with helps you to manage the situation and get the best outcome for your bees. This talk will focus on the brood diseases of honeybees and the signs to look out for to identify any problems. We will also discuss what we can do to reduce the risk of disease in our colonies.

*continued on next page*


# The Bee Improvement & Bee Breeders Association

**BIBBA is committed to the conservation of the native British honey bee and the improvement of near-native and locally adapted honey bees throughout the UK.**

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**I Seminar: Sustainable Varroa Control - Lynfa Davies**
*S55: Sunday 23 April 09:30 - 11:00 Teaching Block TG5* *£Free*
This seminar will focus on Integrated Pest Management (IPM) for controlling varroa. We will cover the lifecycle of the varroa mite and how the mite affects our bees. An IPM approach is not about eradicating the pest but keeping mite populations to a manageable level. This approach is based on three phases:

- Methods of monitoring for varroa
- Biological techniques to keep varroa levels below the recommended thresholds
- Appropriate chemical treatments to use when thresholds are exceeded

We will also discuss the importance of hygienic traits that some populations of bees are expressing which are increasing their resistance to the mite.



**Stephen Fleming** has been fascinated by drone congregation areas (DCAs) since he started beekeeping, he began looking for them in 2016. To his surprise, he found one on his first outing and that one gave clues as to where others might be, so he has been mapping them in his local area (Hampshire) ever since. Each summer, he finds new ones with a simple extendable fishing rod and lure and sometimes with a radio-controlled drone. But the mysteries of their precise locations still baffle him. He is an Editor of BeeCraft and has written several articles about DCAs for that publication.

**A Seminar: Drone Congregation Areas**
*S13: Friday 21 April 11:30 - 13:00 Weston Building WF2* *£Free*
How to look for drone congregation areas in your locality using maps, weather forecasts, lures on the end of fishing rods or even radio-controlled drones. We will look at the range of environments in which DCAs have been found across the world and explore their locations in the UK, challenging myths and misconceptions along the way.

**A Lecture: Isles of Scilly Game of Drones springs surprises**
*Sunday 23 April 10.00 – 11.00 - WLT*
Do honey bee drones venture over water in search of a mate? The Isles of Scilly offer a rare natural laboratory because of their isolation from bees on the mainland, which are unlikely to make the crossing from Land's End unaided. As a result, the islands' colonies, numbering about 20, seem to be free of the varroa mite, foulbrood and perhaps other diseases. The Scillonian Bee Project is investigating the sustainability of honey bee colonies on the islands, the risks of importing bees and the potential risks of colony inbreeding. In 2022, results of pilot work began to emerge from experiments tracking drones, searches for drone congregation areas and genetic analysis of the islands' drones. This work will continue and in 2023 the plan is also to study competition for forage among honey bees and other pollinators.



**Dr Mike Garratt** is a Principal Research Fellow at the University of Reading, in the Centre for Agri-Environment Research. He has worked with bees and other pollinators for more than 10 years, and is interested in how we can protect biodiversity, including bees and other insects, for the benefit of everyone. Mike has worked on several UK and global projects to promote more sustainable farming approaches as well as being involved in the "UK Pollinator Monitoring Scheme", and he is Convener of the Royal Entomological Society "Pollination Special Interest Group".

**S Lecture: Pollination of crops: The role of wild pollinators**
*Saturday 22 April 10.00 - 11.00 – RFA*
**Sponsored by Hampshire Beekeepers' Association**
This talk will cover work carried out exploring sustainable management of crop pollination in the UK and abroad. It will present our current understanding of which pollinators are important for crop pollination, and what contribution they make. It will also consider the many threats pollinators face and what the implications of this are for producing the food we eat. Finally, it will look to the future, exploring how, through effective use of managed pollinators as well as conservation of our biodiversity, we can ensure food security in a changing world.

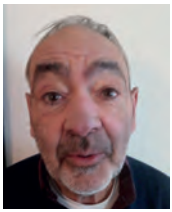
**S Lecture: Understanding and managing apple pollination**
*Sunday 23 April 13.30 - 14.30 – WLT*
**Sponsored by the National Diploma in Beekeeping**
Insect pollinators provide a vital service pollinating apples and improving fruit yield and quality. This talk will present results from some of the latest research aiming to improve our understanding of apple pollination. Working closely with the UK fruit industry, we have been developing approaches to promote sustainable and productive apple orchards through optimised pollination. Results from this work will be discussed.



**Mark Hall BEM** is the Grounds Manager at Harper Adams University, and **Henry Johnson** the Assistant Grounds Manager. Between them they have about 75 years of hedge laying experience. Both leaned their craft in the 1980s and since then they have been laying hedges every year. Both became involved with teaching hedge-laying about 20 years ago and since then have delivered many courses to a wide range of different people. Hedge laying is very relaxing and rewarding, once the skills have been learnt and confidence gained. There is no better job than being outside on a sunny day laying a hedge with nature all around you!



**A Workshop: Hedge Laying**
*W5: Friday 21 April 10:00 - 16:00 Meet at Faccenda reception 09.45* *£30*
This is a practical hands-on course, that will take place on one of the hedgerows within the University farmland. No prior knowledge or experience is needed. The course will cover the tools/equipment that are needed to lay a hedge, along with how to prepare the hedge for laying, making the lay, staking the hedge and binding the top to create a finished hedge. Concluding with advice on how to maintain the hedge in the following years. Those attending will need good boots and clothing suitable for outdoor weather conditions. Gloves will be provided, along with other safety equipment if required.



**Clive Harrison** has been involved in arboriculture, forestry and tree surgery all his working life, and in the training industry for more than 20 years. He holds a National Diploma in Arboriculture and is a LANTRA and NPTC trainer.

**A Workshop: Introduction to Using a Chainsaw**
*W30 Saturday 22 April 10.00 - 16.00 Meet at Faccenda Reception 09.45* *£80*
The chainsaw is an extremely dangerous piece of commonly used equipment. This workshop will introduce a basic understanding of the chainsaw and will focus on using it safely. The participants will be in the Harper Adams University grounds maintenance department. Participants will not need any prior knowledge of the chainsaw and will not need to bring any equipment, other than thick socks to wear in in the safety boots which will be provided.



**Dr Fani Hatjina** is a Biologist with a PhD on pollination. She graduated from Aristotle University of Thessaloniki and undertook her Diploma and PhD studies at the University of Wales in Cardiff. She is a researcher in the Department of Apiculture- Institute of Animal Science of ELGO 'DIMITRA' in Greece, Director of the Institute of Animal Science, a collaborating expert with the European Food Safety Authority (EFSA) and since 2019 President of the Bee Health Scientific Commission of APIMONDIA. Since October 2022 she has also been the Chair of the Council of the International Bee Research Association.

**I Lecture: Mating control in honey bees – the afternoon mating system**
*Friday 21 April 10.00 - 11.00 – RFA*
**Sponsored by The C.B. Dennis Trust**
The "late afternoon mating system", "moonlight mating system" or "Joe Horner's method" involves manipulation of queen mating hours in order to achieve natural matings with a controlled drone population. Mating nuclei are transferred to a cool (14-16°C) and dark container or room two days before the queen's first mating flight, which could be about the 5th or 6th day of her life. After a day in the dark and cool, the nuclei are taken out of the container in the open air in the afternoon and at a time when most free flying drones are expected to have returned from their mating flights. Almost 20-30 min later, the drone producing colonies of the selected stock are then released. For ease of movement of the nuclei in and out of the cool box, in our system they are placed on trolleys that run on rails, which inspired Gilles Ratia to name the system "the train of virgin queens". The nuclei are connected to each other with a 2m long chain, so when they are in the open they are always the same distance from each other. The rails also ensure that the nuclei have exactly the same position and direction day after day, which is essential for queen orientation. A modified version of Late Afternoon Mating in which mating nuclei are not moved in and out of a cool room, but remain in a stable position, has recently been tested successfully in Germany.

**S Lecture: The effect of veterinary medicines on bees**
*Friday 21 April 15.30-16.30 – WLT*
**Sponsored by The C.B. Dennis Trust**
The parasitic mite *Varroa destructor* is a major challenge to the beekeeping industry worldwide. Since varroa appeared in Europe, beekeepers have relied on the use of synthetic or organic substances for repeated treatment. The effect of using acaricides to control varroa has long been a concern to the beekeeping industry due to unintended negative impacts on honey bee health, resistance of mite populations to acaricides, residues in hive products and high costs and labour. By definition, the substances recommended to be used inside the hive as veterinary medicines are not lethal to bees or brood when used at recommended doses, but it is possible that certain sub-lethal and even lethal effects can be caused by the repeated and / or prolonged application of a recommended substance. Acaricides in specific conditions can also have toxic side effects on bees and whole colonies. Most important, however, are the so called sublethal effects at concentrations and doses which are insufficient to cause death, but which nonetheless might alter behaviours such as learning capacity, orientation, foraging, hygienic behaviour, aggressiveness, nursing capacity, weight of larvae and adults, food consumption, immunocompetence, brood development rate, reproduction rate, sperm viability and queen replacement. Our challenge is to increase the use of organic acids instead of synthetic chemicals if treatment is needed, and to promote organic beekeeping.



**John Hendrie** is a Moderator for the BBKA Examinations Board and has been a member for many years, having been the Board secretary from 1991 to 2006. He has kept and managed honey bees for more than 50 years, achieved his BBKA Master Beekeeper Certificate in 1986, and has been heavily involved in beekeeping education ever since, running courses and lecturing widely in the United Kingdom and Ireland on bees and beekeeping. He is currently a BBKA Trustee.

**I Seminar: Preparing for BBKA Module 2**
*S17: Friday 21 April 13:30 - 15:30 Weston Building WF2* *£Free*
This seminar will consider the BBKA Module 2 syllabus by looking at the main areas of study and knowledge required. John will look at past papers and show the ways to answer the questions and what is required in the answers. The seminar will also cover exam technique – something that sometimes lets down even the most accomplished candidate. It is hoped that studying for Module 2 will improve your beekeeping knowledge, especially knowledge of honey and honey bee management.

**I Seminar: Preparing for BBKA General Husbandry**
*S36: Saturday 22 April 11.30 – 13.30 Weston Building WF1* *£Free*
This will cover how the assessment is conducted and what is expected of the candidate. The requirements of the individual tasks will be explained.

**A Seminar: Senses and the Honey bee**
*S58: Sunday 23 April 11.30 – 13.00 Weston Building WF1* *£Free*
This seminar will consider the senses the honey bee uses to manage its environment and try to explain how bees manage to learn so much in their short lives.



**Luke and Suzie Hutchinson** are both founders and directors of Northumberland Honey Company, running around 150 colonies, raising 2-3000 Queens per year and delivering places for the Bee Farmers' Association apprenticeship scheme, with currently two apprentices. Suzie has a background in science, gaining a BSc, MRES and PhD in monocular nutrition. They developed the UK's first traditional method of making Sparkling Mead.

**I Seminar: Commercial Queen Rearing and Breeding**
*S16: Friday 21 April 13:30 - 15:00 Weston Building WF1* *£Free*
This seminar will cover all elements of queen rearing on a commercial scale and the efforts we go to in bee breeding and how to achieve a better bee.

**A Workshop: Journey Through UK Mead**
*W27: Saturday 22 April 09:30 - 11:00 Weston Building WF1* *£12*
*W45: Saturday 22 April 14:00 – 15.30 Weston Building WF1* *£12*
With mead enjoying a resurgence in popularity, join Luke and Suzie of Northumberland Honey Co. to explore what is happening in the mead sector in the UK. Beekeepers and mead-makers, Luke and Suzie established Northumberland Honey Company in 2015 with the purpose of elevating the profile of the honey bee, and producing a champagne equivalent - traditional method 'Sparkling Mead'. In this workshop you will explore making Mead and get to chat with Luke and Suzie about anything from making mead to keeping bees on a hobby or commercial scale. Refreshingly, you will also get to try 6 to 8 varieties of mead. (If driving there will be a spittoon on hand or small-size samples).



**Lynne Ingram NDB** has been keeping bees for over 30 years and currently runs 25 colonies in several apiaries. She is Chair of Taunton Division, a Master Beekeeper, a correspondence course tutor, and an examiner for the BBKA Modules and Microscopy assessment. In 2018, Lynne spent time in Jersey working with Jersey beekeeping on tracking Asian Hornets and is Co-ordinator for the Somerset Asian Hornet Action Team. She is the Chair of the Honey Authenticity Network, 'HAN UK'.

**B Seminar: Handling**
*S39: Saturday 22 April 11:30 - 13:00 Teaching Block TG8* *£Free*
This seminar is aimed at early years beekeepers, and at those who have attended a beginners' course but have not had many (or any) practical sessions because of Covid. We will look at (and try out) some handling skills, and also how to "read" your bees. We will not be working with live bees.

**A Seminar: The truth about honey?**
*S62: Sunday 23 April 11:30 - 13:00 Teaching Block TG5* *£Free*
Honey fraud is the 3rd biggest food fraud in the world. This talk lifts the lid on the how, why and wherefore of honey fraud and adulteration, and the way that it impacts on the livelihoods of beekeepers around the world. We will also take a look at what is happening in the UK.



**Angela Kirk** has been a beekeeper for several years now, she has a passion for reducing waste and using everything from the hive. She runs various workshops from home, for Associations, Spring Convention and National Honey Show.

**A Workshop: Making Wax Wraps**
*W19: Friday 21 April 13:30 - 15:00 Teaching Block E207 (Meet TB Foyer)* *£15*
*W34: Saturday 22 April 10:00 - 11:30 Teaching Block E206 (Meet TB Foyer)* *£15*
**BEESWAX THANKS TO ABELO**
In a relaxed workshop we will make wax wraps using the oven method and discuss other methods and their pros and cons. Angela will show you how to make wax flakes to make the process easier. No previous knowledge required. You may wish to bring an apron.

**A Workshop: Making Honey Ferments**
*W43: Saturday 22 April 13:30 - 15:00 Teaching Block E206 (Meet TB Foyer)* *£12*
*W56: Sunday 23 April 9.30 - 11:00 Teaching Block E206 (Meet TB Foyer)* *£12*
This is a relaxed workshop, usually full of chat and laughter, we will sample some ferments, talk about hive products and make three honey ferments and discuss the benefits, please bring a jar of your (or local) honey (set or runny) and two sterile jars of about equal size – a pound or less, with lids. You may wish to bring an apron.



**Prof. Stephen Martin** has been studying Varroa mites for almost 40 years and is internationally respected in the areas of Varroa biology, viral transmission, chemical ecology, and the impact of Varroa on honey bees. More recently he has travelled extensively researching the evolution of Varroa resistance.



**Rhona Toft** has been keeping bees with her husband Richard for over 20 years. Since 2007, Rhona's colonies have been managed without Varroacides. Instead, Rhona has concentrated on developing a population of Varroa-tolerant bees and now manages around 80 colonies as a small business in Worcestershire.



**Clive Hudson** has enjoyed beekeeping with his wife Shân for 38 years on the western side of Snowdonia, North Wales. They are traditional beekeepers, overwintering 20 colonies, and stopped treating against varroa 14 seasons ago.



**Joe Ibbertson** is a beekeeper of 12 years and has never treated his colonies for Varroa. Building up by catching swarms, he manages between 20-30 colonies annually. Working in tandem with an abundant wild population of honey bees, he concentrates on observing health and resilient behaviours that reflect the local climate and forage patterns.



**Steve Riley** is the current Chair and Education Officer for Westerham Beekeepers, a club covering the Kent / Surrey borders. A group of like-minded beekeepers started a project in 2017 to select for varroa resistant traits in honey bees, identified from research on long established, naturally resistant colonies and from their own data.

**I Workshop: Varroa detection - Stephen Martin**
*W20: Friday 21 April 14:00 - 16:00 Elizabeth Creek Laboratories ECG2* *£25*
This workshop is designed to help you find out if your bees are showing evidence of Varroa resistance. You will be taught how to detect recapped cells and the signs of mite infestation. Please bring a section of 100 sealed worker brood (purple eyed stage or older). This should be frozen and transported to the workshop cold. Dissecting microscopes and other tools will be provided. This workshop is aimed at experienced beekeepers.

**A Lecture: Path to varroa resistance in the UK – Stephen Martin & Others**
*Saturday 22 April 11.30 – 12.30 - WLT*
**Sponsored by The Bee Improvement and Bee Breeders Association**
Entire honey bee populations have become resistant to the Varroa mites decades ago in Brazil, Central America, Mexico, Cuba, and sub-Saharan Africa. Whereas, throughout Europe, the UK and USA smaller isolated varroa resistant populations now exist. Bee researchers in Europe, UK and USA have all contributed to demonstrating how Varroa resistance arises in honey bees. The aim of this lecture is to introduce the audience to a brief overview of the science of Varroa resistance, followed by four personal journeys of UK beekeepers who have been managing Varroa resistant colonies for between 5 and 14 years.

**A Seminar: Varroa Resistance Symposium - Stephen Martin & Others**
*S47: Saturday 22 April 15:30 - 17:30 Teaching Block TG5* *£Free*
This seminar is designed to allow beekeepers of all levels to meet and ask questions from a panel of beekeepers who have been keeping Varroa resistant honey bees for many years. There will also be the opportunity to discuss the issue in smaller groups. The intention is to allow for a longer Question & Answer session after the 11.30 lecture on Varroa resistance, so that more in-depth answers can be given. Intending participants should also have been present at that lecture.

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**Jane Medwell** learnt beekeeping from her mother in the 1970s, then learnt it all over again in the 1990s, when she set up her own apiaries. She is a Master Beekeeper, BBKA Examiner, trainer, Exam Secretary for Warwickshire and member of Warwick and Leamington Beekeepers. She is also A BBKA Trustee.

**Alex Wray** is a third-generation beekeeper who has learnt hive management the practical way!



**I Seminar: Comb Change: Why, What and How?**

*S1: Friday 21 April 09:30 - 11:00 Weston Building WF1* *£Free*

*S42: Saturday 22 April 13:30 - 15:00 Teaching Block TG8* *£Free*

This seminar will examine the vexed issue of comb change in hives because this is a practice which has changed enormously in recent years. We will consider when it is appropriate (and when not), what conditions bees need to replace comb, the advantages and disadvantages of changing combs and evaluate the various ways to effect full or partial change. We will discuss the use of foundation and drawn comb. The seminar will relate comb change to disease and pest control and the impact on bees at different times in the colony cycle.

**S Seminar: Educating & Training Beekeepers**

*S54: Sunday 23 April 9.30 – 11.00 Teaching Block TF4* *£Free*

Beekeeper education aims to improve handling skills, deepen knowledge, and share experience. This workshop will examine the challenges presented by the needs of the very wide range of beekeepers. We will share successful strategies used in education and training in many beekeeping situations and review safety issues and successful teaching techniques. The seminar aims to develop trainers' confidence and teaching skills, so that training promotes the development of best practice and high standards of bee husbandry.



**Jenny Morgan** is a Master Beekeeper, holds the BBKA Microscopy Certificate, and is a BBKA Trustee. She has been a beekeeper for over 12 years and runs 30 colonies. She is a keen educator and regularly runs practical training and modular exam workshops. She is a Basic Assessment and Bee Health Certificate Assessor. She is a member of a microscopy group which has met monthly for over five years, and is keen to share her knowledge and encourage others into using microscopy to learn more about bee forage – and as a tool generally to learn more about honey bees.

**B Seminar: Introduction to BBKA Basic Assessment**
*S10: Friday 21 April 10:00 - 12:00 Teaching Block TF4* *£Free*
The aim of this course is to help prepare for the Basic Assessment. It will include an overview of the syllabus and a step-by-step narrative of the assessment itself with typical questions asked by assessors. Participants will need to have a full season's beekeeping experience prior to undertaking this course.

**I Workshop: Making Pollen Slides**
*W26: Saturday 22 April 09:30 - 12:00 Elizabeth Creek Laboratories ECG1* *£35*
Introduction to the use of the compound microscope and its use to examine pollen. Participants will learn different techniques for making pollen slides. There will be an opportunity to learn how to start to identify different pollens. This workshop is aimed at people with little or no microscopy experience.



**Randy Oliver** sees beekeeping through the eyes of a biologist, building a small commercial beekeeping enterprise in the foothills of Northern California. His sons now manage around 1,500 colonies for migratory pollination, and produce queens, nuclei, and honey, freeing Randy to engage full-time in beekeeper-funded research projects. Randy analyses and digests the scientific research, and is in touch with beekeepers and researchers from all over the world, in order to not only broaden his own depth of knowledge, but to figure out best management practices for beekeepers everywhere, which he then happily shares through his various articles in bee magazines, his speaking engagements, and on his website: **www.ScientificBeekeeping.com**

**I VIRTUAL Lecture: Science and beekeeping**
*Friday 21 April 17.00 - 18.00 – WLT*
**Sponsored by The C.B. Dennis Trust**
Randy will present a talk based on his recent applied research carried out in his apiaries in California, including his testing of pollen substitutes and determination of what makes some better, concepts for successful varroa management, extended-release oxalic acid, bee drifting, and a test of probiotics. Question: Are you interested in using thymol, Hopguard, Formic Pro pads, or thermal treatment for varroa control?



**Chris Park** lives on an organic farm in the Vale of the White Horse. His work ranges across arts and crafts, education, ancient technologies, folk music, storytelling, celebrancy and therapy. He works with schools, wildlife trusts, local authorities, mental health projects, special interest groups, communities and families. He researches beekeeping heritage, folklore and history, and lectures to beekeeping associations. Chris keeps bees in many different types of hives, ranging from log hives to a bee-house, and he specialises in skeps: all styles being treatment-free, allowed to swarm and never fed sugar. During the recent pandemic, Chris worked with the bee-themed podcast Living Beeing. Chris works with the charity Bees for Development, teaching skep making, mead making and skep-beekeeping.

*continued on next page*

**A Workshop: Skep Making**

*W6: Friday 21 April 10:00 - 16:00 Beddington (meet at Faccenda reception 09.45)* £65

This is a beginner's workshop that will teach you how to make a bee-skep. Participants will make approximately one third of a skep and take home the materials and tools plus the know-how to finish it off at home. We will be binding long, wheat straw with cane lapping. How to make lapping from bramble and willow will be demonstrated. Please bring scissors, an apron / pair of waterproof trousers.

**A Lecture: 'The Feminine Monarchie' - 1623 & Charles Butler**

*Saturday 22 April 14.00 - 15.00 – WLT*

**The George Knights Memorial Lecture – Sponsored by BeeCraft**

This year marks the anniversary of Reverend Charles Butler's revised edition of his book 'The Feminine Monarchie'. It was bigger and better and written for a wider audience than his first humble effort of 1609, the first publication in the English language solely dedicated to beekeeping. Amongst many gems, the 1623 edition contained an onomatopoeic madrigal he composed for four singers, cleverly designed to lay open, with each part facing each chorister. Butler was one of the first for many years to write about bees from direct practical knowledge, rather than quoting latin authors as many did. He earned the title 'the father of English beekeeping'. This lecture celebrates his mellifluous work.



**Andy Pedley** has been keeping bees for 30 years. As an Environmental Health Officer, about 10 years ago, realising that there was a fair amount of misinformation and traditional, but not always good, practice, among bee keepers, he developed an interest in the law on food safety as it applies to beekeepers and honey production. In 2009, he authored a series in BeeCraft on the Food Safety Legislation, and has authored other relevant articles for them too – on the Honey Regulations and Recycling jars. He's recently worked more on the nuts and bolts of food safety for bee keepers, and has presented talks on this, and the Food Safety law as it applies to beekeepers. Northern Bee Books asked him to produce a book and this is now in print. Andy is currently the Training Apiary Manager for Oxfordshire BKA. This gives him responsibility for 10 colonies there, as well as his own 7 in various apiaries around Oxfordshire.

**I Lecture: Food Safety for the Beekeeper**

*Saturday 22 April 15.30 - 16.30 – TBL*

Andy explores the practical side of food safety legislation as it applies to beekeepers – from the hive right through to harvesting and sale. He will also cover other aspects of consumer protection law - registration, labelling, compound foods, allergens, weighing, and other products like wraps, candles and polishes (but not cosmetics nor pharmaceuticals).

**I Seminar: Food Safety Law**

*S60: Sunday 23 April 11:30 - 13:30 Weston Building WG3* *£Free*

Andy will discuss the legal requirements that go with food production for beekeepers – dealing with such topics as when you become a food business, whether you need to register, your legal obligations as a food producer, and he will include information about labelling requirements.



**Dr Tom Pope** is a Reader in Entomology and Integrated Pest Management at Harper Adams University. His research is focused on development of sustainable pest management tools, including improved monitoring of crop pests and use of alternatives to synthetic chemical pesticides. Ongoing research includes investigating the potential of biopesticides for the control of the cabbage stem flea beetle and development of a trap cropping system for the management of barley yellow dwarf virus vectors. Dr Pope is a member of the Insecticide Resistance Action Group (IRAG) and the BCPC Pests and Beneficials Working Group.

**A Lecture: Are we there yet? 50 years of IPM in agriculture**
*Saturday 22 April 10.00 - 11.00 – TBL*
Integrated Pest Management and the acronym IPM was coined in 1972 and has since been widely accepted by the scientific community. Despite this a perfect definition of IPM has yet to be agreed upon. Furthermore, whilst the last 50 years has seen much work to develop IPM compatible approaches to crop protection, it could be argued that there remains much to do in order to develop the science of IPM where crop protection approaches are used simultaneously in an optimised way.'



**Prof. Samuel Ramsey** received his B.S. in Entomology from Cornell University, USA and his PhD in Entomology from the University of Maryland College Park. He completed his post-doctoral training with Dr Jay Evans, Steve Cook, and Daniel Sonenshine at USDA-ARS Bee Research Laboratory, and now serves as Endowed Professor of Entomology at the University of Colorado, Boulder's BioFrontiers Institute and the Ecology and Evolutionary Biology Department. Featured on Hulu's Docuseries: "Your Attention Please" as well as in the Washington Post, on NPR, CNN, Wired, CBS "This Morning", Khan Academy, Seeker, The Today Show and several local news segments, Samuel is celebrated as an engaging science communicator. He uses this talent to make science more accessible to a broad audience. His non-profit organisation The Ramsey Research Foundation works to remove barriers that slow the progress of, and decrease access to, science by developing novel pathways for scientific funding, and by removing paywalls that keep the public from engaging with published scientific work.

**I VIRTUAL Lecture: How to prevent a pollinator pandemic: Treating Tropi mites**
*Saturday 22 April 17.00 - 18.00 – WLT*
**Sponsored by Vita Bee Health**
*Tropilaelaps mercedesae* (The Tropi mite) is among the most concerning threats to our honey bees, but continues to be one of the least studied. The "Fight the Mite Initiative" established by the Ramsey Research Foundation was designed to take the fight to the Tropi mite before its spread reaches pandemic proportions. We have conducted studies of the vulnerabilities of this parasite, and have found chemical and nonchemical options suitable for their control. We tested solar-powered direct-to-cell frame heaters and full colony heaters for our non-chemical treatment measures, and two methods of formic acid application. While these options varied substantially in their suitability for consistent mite management, we were able to see clear trends in each treatment. Further research will be needed to adjust for optimal dosage, but this work represents the first steps to getting treatments registered for the control of Tropi mites. Funded in a large part by the beekeeping community internationally, this work not only provides valuable data as we combat a global pollinator health concern, but it further highlights how much can be accomplished when we combine resources and focus attention proactively.



**Sue Rawlings** comes from West Wiltshire and has been involved with Beekeeping for 46 years, with her husband Chris. She has a City and Guilds qualification in floristry and is a member of the British Sugar Craft Guild. She has been making sugar flowers for many years. Now working with beeswax she has developed her own methods of crafting flowers. She has entered honey shows in the South West recently winning 2 Blue Ribbons and a first in the National Honey Show 2022.

**A Workshop: Beeswax Flower Creations**

*W31: Saturday 22 April 10.00 - 12:00 Beddington Meet at Faccenda reception at 09.45 £18*

This is a workshop in Beeswax flowers where I will guide you through the art of making a rose and one other flower. It will cover methods for making your sheets of coloured beeswax and turning them into lifelike examples for display. You will receive a starter pack with templates and wires etc. The course is aimed at beginners, so no previous experience is needed and I hope this will be a starter to encourage new exhibitors to the show-bench.



**Dr John Reade** is a Principal Lecturer and Course Manager at Harper Adams University. His teaching involves a wide range of subjects, from organic farming and sustainability to pesticide resistance and biotechnology. His research is focused on development of sustainable weed management methods, herbicide resistance, agroecology, and plant physiology. He has a passion for botany that started when he first sat in a garden, as a young child, in Horfield, Bristol, back in the late 1960s!

**A Seminar: A bountifulness of Botany**

*S24: Friday 21 April 15:30 - 17:00 Teaching Block TG5 £Free*

From basic botany to the latest research in agroecology and plant science. Explore taxonomy, the parts of a plant, their lifecycles, their interactions, and discuss why they are so fundamental to all life on Earth. An interactive classroom-based seminar for all things plant-related.

**A Workshop: Botany in Practice**

*W44: Saturday 22 April 14:00 - 15:30 Elizabeth Creek Laboratories ECG1 £25*

This interactive laboratory-based session will allow you to practise your plant identification, delve into plant morphology, and explore the wonderful world of plants. Is it *Veronica persica* or *Lamium purpureum*? Do you know your rhizomes from your stolons? Do dandelions need insects as much as insects need dandelions? Find answers to these questions and much more during this practical plant-focussed session.



**Dr Sara Robb**. After leaving academic research, Dr Sara Robb began formulating cosmetics with honey and beeswax. Written to comply with UK and EU cosmetic safety legislation, Sara's formulations are available in her books published by Northern Bee Books, online (www.CPSR.buzz), and in her workshops at the National Honey Show and BBKA Spring Convention. Sara is also a cosmetic safety assessor who specialises in writing Cosmetic Product Safety Reports (CPSRs) for beekeepers. Quick CPSRs are available for her recipes and bespoke CPSRs if you want to submit your own.

**A Seminar: Selling Cosmetics and the Law**

*S9 Friday 21 April 10:00 - 12:00 Weston Building WG4* *£Free*

Selling cosmetics can be a source of extra income for beekeepers. Whether it's just a lip balm or a range of products, anyone who sells cosmetics is required to comply with cosmetic legislation: The UK Regulation Schedule 34 of the Product Safety and Metrology Statutory Instrument and "Cosmetics Regulation" Regulation (EC) No. 1223/2009. Dr Sara Robb, a cosmetic safety assessor, will explain what you need to do to sell your products legally in the UK and/or EU. The workshop will cover putting together a Product Information File (PIF), the Responsible Person (RP), Cosmetic Product Safety Reports (CPSRs) and listing your cosmetics on the Submit Cosmetic Product Notifications (SCPN) portal.

**A Workshop: Super Natural Formulations**

*W21: Friday 21 April 14:00 -16:30 Weston Building WG4* *£18*

*W33: Saturday 22 April 10:00 - 12:30 Weston Building WG4* *£18*

Learn to make Super Natural Formulations with Honey & Beeswax. Dr Sara Robb will demonstrate how to make a new formulation for English Rose Soap. This beautiful soap is made using Sara's no-cure method and is safe to use the same day it is made. Containing calamine clay and topped with rose petals, it is the prefect welcome for spring. We will also make a Honey Dew Water-Activated Lotion Bar. It does what it says on the tin - dampen the bar with a little water and an emulsion forms in your hands. The final product we will make is Honey Dew Facial Toner. Made without heat, raw honey is the perfect ingredient for this product. Come along and make a collection of Super Natural Formulations.

*continued on next page*

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**A Workshop: Spring Cleaning – Dr Sara Robb**
*W46: Saturday 22 April 14:00 - 16:30 Weston Building WG4* *£18*
*W53: Sunday 23 April 09.30 - 12:00 Weston Building WG4* *£18*
Dr Sara Robb will include a selection of Spring Cleaning Super Formulations in this workshop. To begin the workshop, Dr Sara will demonstrate how to make Witch Hazel & Propolis Soap. Using her rapid no-cure method, this soap is ready to sell the same day it's made. Beekeepers will also learn to make a Clay Cushion Cleanser-a solid cleaning bar with honey and clay. The final product is Beeswax Face & Body Moisture Cream with Essential Oil. This fantastic cream can be made in a few variations and will keep you moisturised from head to toe (or from A to Bee if you prefer). Each participant will take home a high-quality selection of Super Formulations.



**Dr Joe Roberts FRES** is a lecturer in Entomology and Integrated Pest Management at Harper Adams University. He has extensive skills and experience relating to entomology, crop protection and chemical ecology research at both the lab and field scale. He has had a number of papers published covering these areas of research.

**A Lecture: Data-driven insect monitoring**
**Sponsored by Manchester & District BKA**
*Friday 21 April 11.30 - 12.30 – RFA*
Data is increasingly used to inform decisions in all aspects of day-to-day life. We are also able to use data to help monitor a wide range of variables in the natural environment, including insect biodiversity and populations. This talk will explore how data is currently exploited and the future of insect monitoring using cutting-edge technologies.



**Anne Rowberry**, a Master Beekeeper and President of the BBKA, now has around 20 colonies and maintains an observation hive in a local school. She has delivered training courses at the BBKA Headquarters at Stoneleigh, planned and introduced new courses for Queen Rearing, Bee Health and a new five day Bee Management course. She is an assessor and examiner for all levels of BBKA assessments and exams, writes and marks module exams and organises and tutors on the Advanced and General Husbandry courses at Stoneleigh. She also lectures at National and International events.

**A Lecture: Asian Hornets: a major, imminent threat to our bees**
**Sponsored by Avon BKA**
*Friday 21 April 10:00 - 11:00 – WLT*
We will look at the Asian Hornet and the spread of this amazing insect throughout Europe, and the range of techniques being used to control the impact of this invasive predator on our honey bees. There will also be a chance to learn about the behaviour of some bees when Hornets predate the colony, to discuss several control methods such as the Electric Harp and learn about various Asian Hornet research projects.

**I Seminar: Introducing BBKA Honey Bee Health Certificate**
*S63: Sunday 23 April 12:00 - 13:30 Teaching Block E206 (meet TB foyer)* *£Free*
This seminar will cover the syllabus for the BBKA Honey Bee Health Certificate and ensure all the material required for this assessment is discussed. There will be tips and advice on how to approach the assessment and ensure you are well prepared.



**Debbie Smith** holds Masters degrees in biogeography and conservation, and ecology. She has carried out ecological research around the world, and possibly discovered a new species of Himalayan bumblebee whilst eating lunch at 16,000 feet! Honey bees came later, but she now tends up to 13 colonies squeezed into her garden. She holds the BBKA Show Judge Certificate, is a BBKA Honey Judge Assessor, and judges many honey shows each year at local, regional and national level. She is an enthusiastic exhibitor across the range of show categories, and has won many major trophies for honey and wax, including at the National Honey Show.

**I Seminar: Showing Honey**

*S2: Friday 21 April 09:30 - 11:00 Weston Building WF2* *£Free*

The seminar will cover preparation of exhibits for showing to a prize winning standard, achievable at all levels of beekeeping experience. We will consider liquid, set (naturally granulated and soft set), chunk, heather and cut comb honey, plus commercial honey classes and labelling requirements. This seminar will involve discussion, with examination and tasting of potential exhibits. You are welcome to bring 1 or 2 items for examination and comment.

**B Seminar: Showing Wax**

*S41: Saturday 22 April 13:30 - 15:00 Teaching Block TG5* *£Free*

This will include discussion of how to prepare beeswax blocks large and small, candles, wax models and wax wraps to a prize-winning standard. You are welcome to bring items for examination and comment.



**Dr Victoria Soroker** has a Master's degree in animal behaviour from Tel Aviv University and a PhD from the Hebrew University of Jerusalem on pheromone biosynthesis. She is a senior researcher at the Volcani Center agricultural research institute in Israel. Specialising in chemical ecology, physiology and integrated pest management, she has studied honey bees for about 20 years. Over the last 12 years her focus has been on levels and causes of honey bee losses. Her research team aims at developing an integrated approach to varroa management. Much of Vicky's research is with members of the COLOSS association, of which she has been a member since 2008. She is active in the COLOSS Monitoring Core project and in Varroa and Bee Breeding Task Forces, participating in common experiments and writing common articles and book chapters. Since 2019 she has been a leader of the COLOSS Varroa Task Force and organised two COLOSS workshops. Vicky has published over 120 reviewed papers and chapters, edited two books and recorded a podcast on honey bees for the public. She edits a local beekeepers' journal and is an Associate Editor of the *Journal of Apicultural Research*.

**I Lecture: The COLOSS Varroa Task Force: who we are and what we do**

*Friday 21 April 11.30 - 12.30 – WLT*

**Sponsored by The C.B. Dennis Trust**

The varroa mite (*Varroa destructor*) remains one of the main challenges due to direct damage and that caused by viruses which it vectors. The COLOSS Varroa Control Task Force is composed of researchers, bee health experts and extension workers from many countries around the globe. These members work together to: Evaluate beekeeping practices against varroa with regard to efficacy and safety for honey bee populations; to improve current management options and to develop novel strategies; to evaluate diagnostic and monitoring methods for varroa infestation levels and more. In my talk I will present some group findings and current projects.

*continued on next page*

**A Lecture: Beekeeping in Israel - practice and current challenges - Dr Victoria Soroker**
*Saturday 22 April 14.00 - 15.00 – RFA*
**Sponsored by The C.B. Dennis Trust**
Honey bees (*Apis mellifera*) have thousands of years of history in this part of Asia. The native honey bee race is thought to be *A. m. syriaca* but due to recent archaeological information, this is not certain. Today most beekeepers keep *A. m. ligustica* although some other subspecies are also present. Due to very limited vegetation and arid conditions in the southern part of the country, most beekeeping is very concentrated in the centre and north of the country, reaching a density of more than 14 colonies per square km. Local beekeepers practice modern methods of beekeeping using Langstroth hive boxes. Varroa arrived in Israel in 1984 and since then, it has represented a major challenge to the beekeeping sector. Due to very mild winters, brood is present all year around, and professional beekeepers usually treat their colonies preventively against varroa destructor mites. A country of intensive agriculture is another challenge for the bee sector due to heavy use of agrochemicals. The focus of my research team is to follow colony losses in Israel as well as to develop sustainable means to control varroa. In my talk I will present data on beekeeping in Israel along with our recent findings.



**Oliver St John** has been a beekeeper since 2010. Based in Sussex, he now teaches beekeeping across the county. In his spare time he works for Cat Protection as a Surveyor.

**B Workshop: Build Your Own Hive**
*W4: Friday 21 April 09:30 - 16:00 Teaching Block E206 (Meet TB Foyer)* *£205*
This one-day course allows attendees to assemble and take home a cedar National beehive and frames with guidance and top tips from the experienced tutor. The workshop includes a comprehensive handout and your assembled cedar hive works out much cheaper than one you'd buy ready-assembled!



**Sean Stephenson**, a Master Beekeeper, Chairman of Bucks BKA and as a BBKA Assistant Moderator is a member of the BBKA Exams Board. He has been involved in the development of the new BBKA Plants and Pollinators module and was instrumental in running the trial exam for the module in March 2022.

**S Seminar: Running a weekend Queen Rearing course**
*S12: Friday 21 April 11:30 - 13:00 Weston Building WF1* *£Free*
This seminar guides participants through a completely hands-on weekend queen-rearing course. It covers the preparation, tasks, timings and related activities. The workshop will provide the attender with sufficient material to plan and run their own queen rearing course.

**A Seminar: Introducing BBKA Plants and Pollinators**
*S52: Sunday 23 April 09.30 - 11.00 Weston Building WG3* *£Free*
The new BBKA Plants and Pollinators Module exam will commence in November 2023. This workshop will introduce the syllabus and work through example questions.



**Prof. Jane Stout**, from Trinity College Dublin, focusses on complexities of natural ecosystems and interactions between nature and people. An internationally renowned expert on pollinator and pollination ecology, Jane is a prominent voice for biodiversity and its value. Her research helps to identify societal and business risks associated with biodiversity loss, and development of habitat management solutions, with significant

implications for some of the poorest world communities. In Trinity College, Jane has taken on the new role of Vice President for Biodiversity and Climate Action, embedding sustainability as a key priority throughout operations, education and research. Prior to this, she was co-Director of the Nature+, the Trinity Centre for Biodiversity & Sustainable Nature Based Solutions, and led a large team in the Plant-Animal Interactions Research Group. Beyond Trinity, Jane works across disciplines, with a range of organisations, to improve environmental policy and practice. She is co-founder of the All-Ireland Pollinator Plan, one of the most successful conservation projects in Ireland. Jane is also co-founder and former Chair of Natural Capital Ireland, a not-for-profit organisation with a future vision where nature, and the benefits humanity derive from it, are valued, protected and restored.

**S Lecture: Plant-pollinator interactions in agricultural landscapes**
*Saturday 22 April 15.30 - 16.30 – RFA*
**Sponsored by The C.B. Dennis Trust**
Agriculture both benefits from, and has impacts on, pollinating insects including bees. Multiple stressors of habitat loss, modification and degradation, along with the indirect and direct impacts of pesticides, have complex consequences for different pollinator species at different scales. Ongoing projects at the European scale (including the EU funded PoshBee project **www.poshbee.eu**) are attempting to disentangle the effects of multiple stressors on bee health, and make recommendations for halting and reversing pollinator loss. This talk will present the results from some of this work, and discuss the data gaps and challenges that remain.

**A Lecture: Pollinator conservation in Ireland**
*Sunday 23 April 11.30 - 12.30 – WLT*
**Sponsored by The C.B. Dennis Trust**
The All-Ireland Pollinator Plan is a shared plan of action to halt pollinator loss and create an Ireland where bees and other pollinators survive and thrive. It's an evidence-based plan, which provides tailored guidance to a range of sectors (businesses, local communities, local authorities, gardeners, farmers…) and specific technical guidance (such as creating nesting habitat and wildflower meadows). The Plan was launched in 2015 and has since grown into one of the biggest conservation success stories in Ireland. It has engaged citizens from across the island of Ireland, from a range of sectors, and has resulted in a widespread change in the way public and private land are managed to promote pollinators. This talk will outline the process, successes and challenges in implementing the Plan, and discuss future directions and needs.



**Pete Sutcliffe** now keeps an average of 20 colonies on various sites in the Dane Valley in Cheshire, ably assisted by his wife, who gave in after 20 years' resistance! Pete is a BBKA Correspondence Course Tutor, a Basic and General Husbandry Assessor, and he has set and marked Module examinations. Having edited the Cheshire Beekeeper magazine for several years, he is presently Chair and Education Secretary of the Cheshire Beekeepers' Association.

**B Lecture: Avoiding swarming in your first two years**
*Friday 21 April 15.30 - 16.30 – RFA*
**Sponsored by Northamptonshire BKA**
Swarming is the most often mentioned problem for beekeepers in their first years of beekeeping – and is mentioned quite a lot in later years too! It is impossible, in practice, to stop swarms absolutely, but there is a lot that beekeepers can do towards this end. Many simple and effective measures are often overlooked: it is these methods that Pete will outline in this talk.



**Rhona Toft** kept bees as a hobby with her husband Richard for 16 Years before it grew into a semi-commercial enterprise and 'Foragers Bee & Honey Co.' was born. Seven years on, numbers of colonies have gradually increased to around 80, which are kept in the South of Worcestershire. Since 2007, her bees have been managed without the use of Varroacides and the selection of Varroa-tolerant bees has been a passion. Rhona is a member of the Bee Farmers' Association, a Master Beekeeper and holder of the Wax Chandler's Award. Rhona is also actively involved in training and mentoring new beekeepers.

**Seminar: More than a Hobby**

*S23: Friday 21 April 15:30 - 17:00 Teaching Block TF4* *£Free*

Some beekeepers wonder whether they could turn their hobby into a business. This session will look at the differences and similarities between beekeeping as a hobby and as a business. For those considering growing their hobby into a business we will look at some points to take account of before making that decision.



**Ollie Visick** has a Master's degree in Zoology from the University of Sussex, where he studied the role of scent fanning behaviour in honey bee forager orientation. He is now in the third year of his PhD at Sussex, funded by the C B Dennis Trust, studying wild honey bee colonies under the supervision of Professor Francis Ratnieks. He is also a beginner beekeeper and manages four hives on his family's farm in East Sussex.

**Lecture: Wild honey bees in Britain: colony density, survival and nest site availability**

*Saturday 22 April 11.30 - 12.30 – RFA*

**Sponsored by The C.B. Dennis Trust**

Wild or "free-living" honey bee colonies might be an important source of genetic variation in beekeeping, but the factors that affect their density and survival in Britain are poorly understood. As part of his PhD, Ollie is monitoring the density and survival of wild honey bee colonies at six sites in Sussex. He has also searched over a thousand Ancient and Veteran trees at an additional ten sites to see whether they are used by wild colonies as nest sites. With help from his colleagues at Sussex, he has also developed an indirect measure of honey bee nest site availability using artificial honey bee swarms.



**Val Vivian-Griffiths** is a Master Beekeeper who, together with her husband, has been beekeeping for 22 years and they have just over 30 colonies. She is particularly interested in passing on the art and supporting new beekeepers. She has been involved in training for about14 years and continue to mentor. She is a Basic Assessor but has just retired from General Husbandry Assessor role.



**Jim Vivian-Griffiths** is also a Master Beekeeper and is a qualified lecturer in the Republic of Ireland. Val and Jim ran basic beekeeping courses for Dean Forest BKA for 14 years and have been assessors for BBKA Basic & General Husbandry. They now have all their bees at their home apiary, with 25 colonies, and 12 nuclei going into winter.

**Seminar: Swarm Prevention & Control**

*S3: Friday 21 April 09:30 - 11:00 Teaching Block TG5* *£Free*

*S29: Saturday 22 April 09:30 - 11:00 Teaching Block TG8* *£Free*

This will be a seminar with interaction between Tutor and participants, dealing with one of the most difficult aspects of beekeeping. Firstly, it will cover all aspects of swarm prevention, and secondly, what to do when the prevention process fails and the bees decide they are going to swarm. I will be using the Nucleus method of swarm control

as we have successfully used this method for over 20 years. This workshop/seminar is suitable for all beekeepers from their second year onwards.

**B Seminar: Queen Raising on a Small Scale**

*S48: Saturday 22 April 15:30 - 17:00 Teaching Block TG8* *£Free*

The seminar is an introduction to queen raising and aimed at beginner/intermediate beekeepers with a small number of hives who just want to raise queens to improve their colonies.



**Alison Wakeman** set up an educational business, Alison's Bee Class in 2014, and the first school she visited was on a voluntary basis. Her sessions were so well received, as a 'thank you', the school gifted her a mobile observation hive. She has visited hundreds of schools since and found it an invaluable teaching tool as well as a great way to engage with the public at outdoor events. In 2016 she entered it into the Shrewsbury Flower Show, being judged on educational merit, and has been awarded first prize ever since. She manages 20 colonies and is a prolific guest speaker on the 'awareness of bees and their importance in the environment'.

**I Seminar: Observation Hive Management**

*S18: Friday 21 April 13:30 - 15:00 Teaching Block TG5* *£Free*

Have you ever fancied setting up a honey bee observation hive? Are you considering taking a colony into your local school, retirement home, local social group? Are you thinking about setting up an educational stall at your local village show? Come along to learn the basics of how to set up and manage - as well as how 'not to do things'!







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**A5 UK Bee Removers**
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ST3 5DW
Uk.beeremovers@gmail.com
www.ukbr.org

# NOT FOR PROFIT ORGANISATIONS

**Bees Abroad**
2 St.Michael's Court,
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Bath
BA2 7HA
rachel_monger@beesabroad.org.uk
www.beesabroad.org.uk

**BDI**
Bee Diseases Insurance
c/o The National Beekeeping Centre,
Stoneleigh Park,
Kenilworth
CV8 2LG
martin.smith@beediseasesinsurance.co.uk
www.beediseasesinsurance.co.uk

**BIBBA**
Bee Improvement and Bee Breeders Association
Cairn Cottage, Spring Lane,
New Milton,
Hampshire
BH25 5QB
secretary@bibba.com
www.bibba.com

**BBKA**
British Beekeepers Association
The National Beekeeping Centre,
Stoneleigh Park, Kenilworth
CV8 2LG
gen.manager@bbka.org.uk
www.bbka.org.uk

**CABK**
Central Association of Beekeepers
74 Whitelands Avenue,
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Herts
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secretary@cabk.org.uk
www.cabk.org

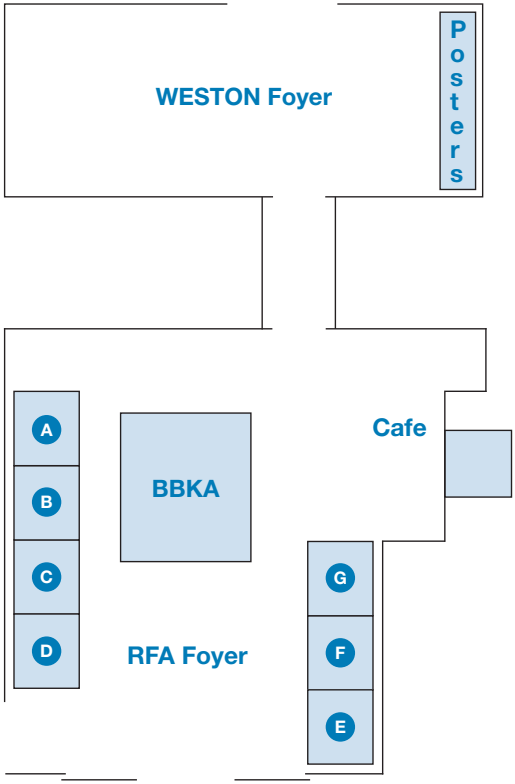
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david@thursfieldsmith.co.uk
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**National Honey Show**
scheduleconvenor@honeyshow.co.uk
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**Shropshire Wildlife Trust**
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# THE EXHIBI

**Not for Profit Organisations Exhibition**
**Friday 9.30 - 17:30**
**Saturday 9.30 - 16.30**

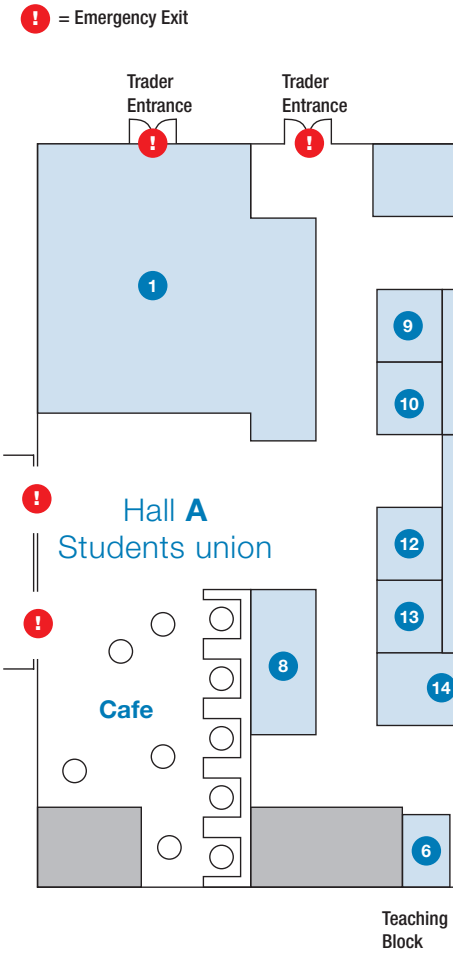



## Not for Profit Organisations - RFA Foyer

- **A** National Honey Show
- **B** CABK
- **C** BIBBA
- **D** Bees Abroad
- **E** Shropshire Wildlife Trust
- **F** Marcher Apple Network
- **G** BDI-Bee Diseases Insurance

## TRADE EXHIBITORS HALL A - STUDENTS UNION

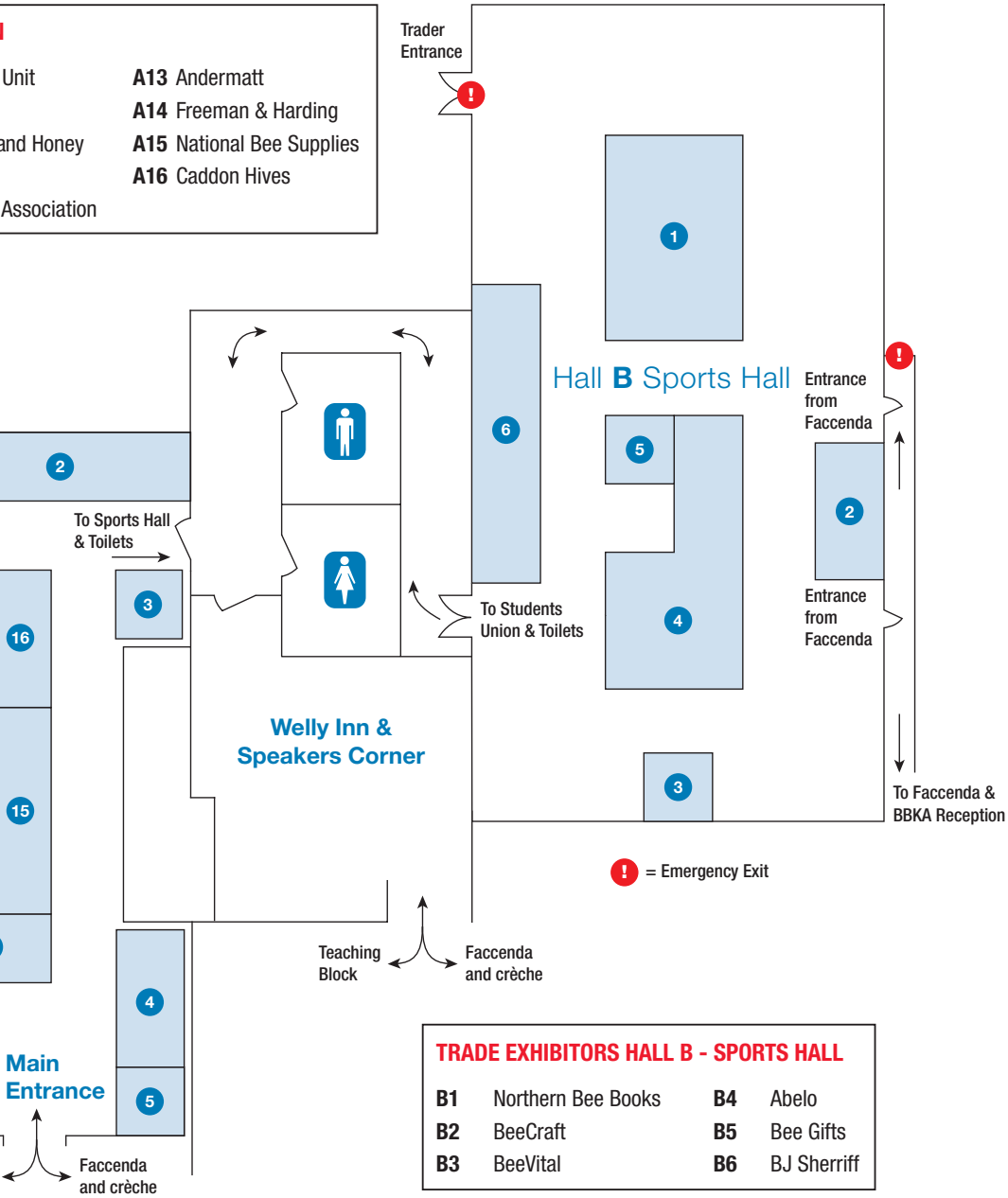
| | | | |
|---|---|---|---|
| **A1** | Thornes | **A6** | National Bee |
| **A2** | Old Castle Farm Hives | **A8** | BB Wear |
| **A3** | Happy Keeper | **A9** | Northumberla |
| **A4** | Vita Europe | **A10** | BIBBA |
| **A5** | UK Bee Removers | **A12** | Bee Farmers |



# TION HALLS

**Trade Show Exhibition**
**Saturday 08.30 - 16.30**

| | |
|---|---|
| Unit | **A13** Andermatt |
| | **A14** Freeman & Harding |
| and Honey | **A15** National Bee Supplies |
| | **A16** Caddon Hives |
| Association | |




## TRADE EXHIBITORS HALL B - SPORTS HALL

| | | | |
|---|---|---|---|
| **B1** | Northern Bee Books | **B4** | Abelo |
| **B2** | BeeCraft | **B5** | Bee Gifts |
| **B3** | BeeVital | **B6** | BJ Sherriff |

# Friday 21 April

| LOCATION | Room | 9.30 | 10.00 | 10.30 | 11.00 | 11.30 | 12.00 | 12.30 | 13.00 | 13.30 | 14.00 | 14.30 | 15.00 | 15.30 | 16.00 | 16.30 | 17.00 | 17.30 | 18.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LECTURES** | | | | | | | | | | | | | | | | | | | |
| **RFA Lecture Theatre** | | | **Mating control in honey bees** *Fani Hatjina* | | | **Data-driven insect monitoring** *Joe Roberts* | | | | | **Bees' reaction to knocking the hive** *Martin Bencsik* | | | **Avoiding swarming in your first two years** *Pete Sutcliffe* | | | | | |
| **Weston Lecture Theatre** | | | **Asian Hornets, A major imminent threat to our bees** *Anne Rowberry* | | | **COLOSS Varroa Task Force** *Victoria Soroker* | | | | | **Foulbrood spread and control** *Giles Budge* | | | **Veterinary medicines & bees** *Fani Hatjina* | | | **VIRTUAL LECTURE Science and beekeeping** *Randy Oliver* | | |
| **WORKSHOPS & SEMINARS** | | | | | | | | | | | | | | | | | | | |
| **Faccenda** | Facc Recep | | **W5 Hedge Laying -** *Mark Hall & Henry Johnson* (Meet Facc Reception 09.45) | | | | | | | | | | | | | | | | |
| **Beddington** | Facc Recep | | **W6 Skep Making -** *Chris Park* (Meet Facc Reception 09.45) | | | | | | | | | | | | | | | | |
| **E.Creak Laboratories** | ECG1 | | **W7 Microscopy for Nosema and Acarine -** *Julie Coleman & Lynne Ingram* | | | | | | | **W15 Honey Bee Anatomy & Dissection -** *Marin Anastasov - Lynfa Davies* | | | | | | | | | |
| **E.Creak Laboratories** | ECG2 | | | | | | | | | | **W20 Recapping for Varroa Detection -** *Stephen Martin* | | | | | | | | |
| **Weston Building** | WF1 | | **S1 Comb Change: Why What and How? -** *Jane Medwell & Alex Wray* | | | **S12 Running a Weekend Queen Rearing Course -** *Sean Stephenson* | | | | **S16 Commercial Queen Rearing & Bee Breeding -** *Luke & Suzie Hutchinson* | | | | **S22 How to Make Beeswax Products -** *Stephen Case-Green* | | | | | |
| **Weston Building** | WF2 | | **S2 Showing Honey -** *Debbie Smith* | | | **S13 Drone Congregation Areas -** *Stephen Fleming* | | | | **S17 Preparing for BBKA Module 2 -** *John Hendrie* | | | | | **S25 An Association Apiary - What's it for? -** *Richard Bond* | | | | |
| **Weston Building** | WG3 | | **W8 Instrumental Insemination of Honey Bees - Michael Collier** | | | | | | | | | | | | | | | | |
| **Weston Building** | WG4 | | | **S9 Selling Cosmetics and the Law -** *Sara Robb* | | | | | | | | **W21 Super Natural Formulations -** *Sara Robb* | | | | | | | |
| **Teaching Block** | TF4 | | | **S10 Introduction to BBKA Basic Assessment -** *Jenny Morgan* | | | | | **W14 Cut Comb, Chunk Honey & Sections -** *Andy Anderson* | | | | | **S23 More Than a Hobby -** *Rhona Toft* | | | | | |
| **Teaching Block** | TG5 | | **S3 Swarm Prevention & Control -** *Jim & Val Vivian-Griffiths* | | | | | | | **S18 Observation Hive Management -** *Alison Wakeman* | | | | **S24 A Bountifulness of Botany -** *John Reade* | | | | | |
| **Teaching Block** | E206 | | **W4 Build Your Own Hive -** *Oliver St. John* (Meet TB Foyer) | | | | | | | | | | | | | | | | |
| **Teaching Block** | E207 | | | **W11 Comb to Candle -** *Shirley & Richard Bond* (Meet TB Foyer) | | | | | | | **W19 Making Wax Wraps -** *Angela Kirk* (Meet TB Foyer) | | | | | | | | |

**Suggested knowledge levels:** Please refer to the "Lectures" section on pages 14 & 15, and the Workshops & Seminars section on pages 16 & 17 for these.
**Workshop fees:** Please refer to pages 16 & 17.
More information about the speakers/tutors and their topics can be found (in alphabetical order of main speaker's name) on pages 19 – 43.

# Saturday 22 April

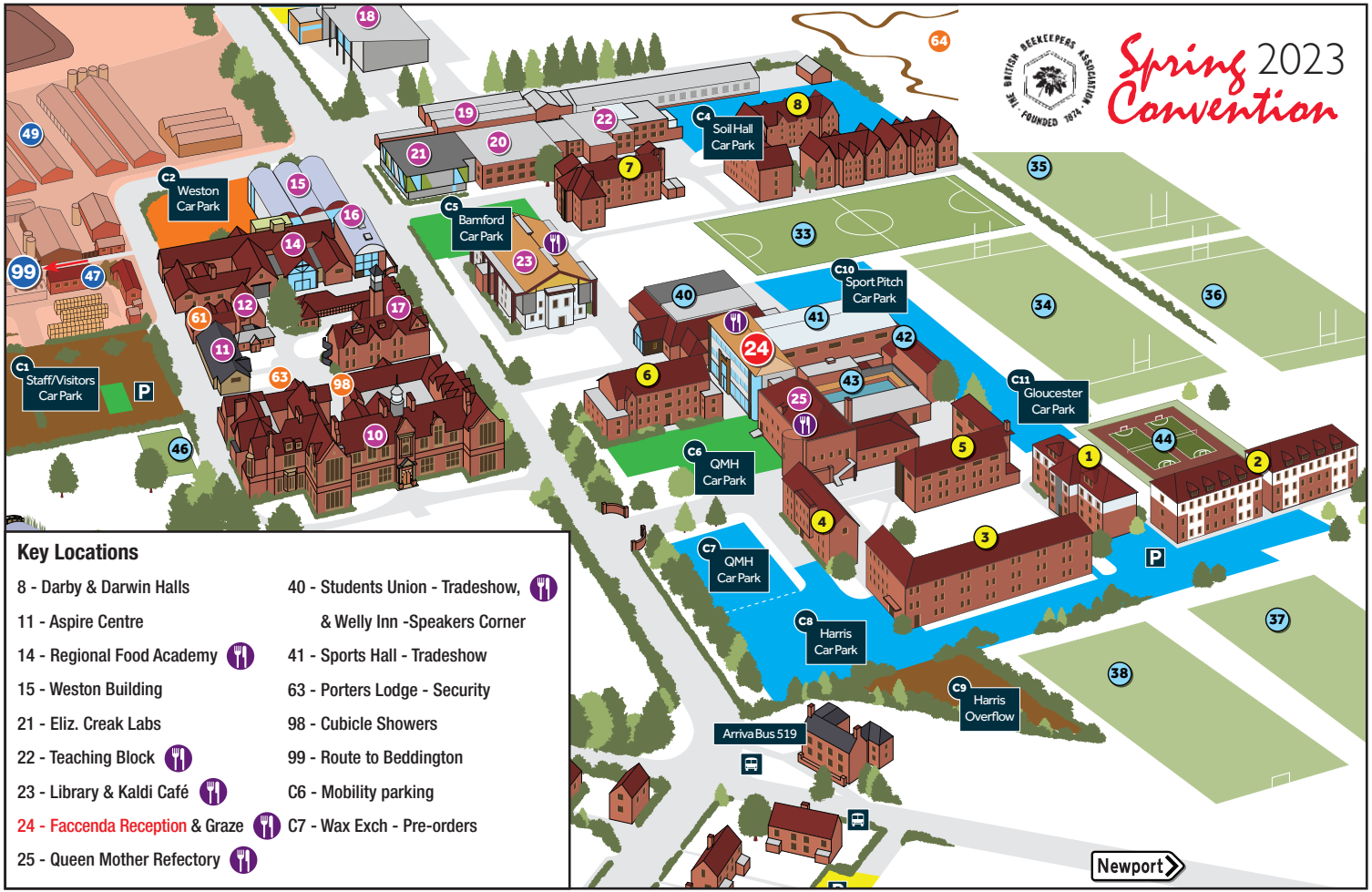
| LOCATION | Room | 9.30 | 10.00 | 10.30 | 11.00 | 11.30 | 12.00 | 12.30 | 13.00 | 13.30 | 14.00 | 14.30 | 15.00 | 15.30 | 16.00 | 16.30 | 17.00 | 17.30 | 18.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LECTURES** | | | | | | | | | | | | | | | | | | | |
| **Teaching Block Lecture Theatre** | | | **Are We There Yet - 50 Years of IPM in Agriculture** *Tom Pope* | | | | **Commercial Beeswax Production** *Stephen Case-Green* | | | | **Bonny Babies or Languid Larvae: Which do you have?** *Lynfa Davies* | | | | **Food Safety for the Beekeeper** *Andy Pedley* | | | | |
| **RFA Lecture Theatre** | | | **Wild Pollinators** *Mike Garratt* | | | | **Wild honey bees in Britain** *Ollie Visick* | | | | **Beekeeping in Israel** *Victoria Soroker* | | | | **Plant pollinator interactions** *Jane Stout* | | | | |
| **Weston Lecture Theatre** | | | **Chronic Bee Paralysis** *Giles Budge* | | | | **Path to varroa resistance in the UK** *Stephen Martin & Others* | | | | **The Feminine Monarchie, 1623 and Charles Butler** *Chris Park* | | | | **A novel honey bee signal** *Martin Bencsik* | | | **VIRTUAL LECTURE Treating Tropilaelaps** *Samuel Ramsey* | |
| | | **Starts 08.30** | | | | | **Trade Show including Speakers Corner 10.30 – 16.00** | | | | | | | | | | | | **Ends 16.30** |
| **WORKSHOPS & SEMINARS** | | | | | | | | | | | | | | | | | | | |
| **Faccenda Recep** | Facc Recep | | | | | | **W30 Introduction to Using a Chainsaw - Clive Harrison (Meet Facc Recep 09.45)** | | | | | | | | | | | | |
| **E.Creak Laboratories** | ECG1 | | **W26 Making Pollen Slides -** *Jenny Morgan* | | | | | | | | **W44 Botany in Practice -** *John Reade* | | | | | | | | |
| **Beddington** | Facc Recep | | | **W31 Beeswax Flower Creations -** *Sue Rawlings* **(Meet Facc Recep 09.45)** | | | | | | | | | | | | | | | |
| **Weston Building** | WF1 | | **W27 Journey Through UK Mead -** *Luke & Suzie Hutchinson* | | | | **S36 Preparing for BBKA General Husbandry -** *John Hendrie* | | | | **W45 Journey through UK Mead -** *Luke & Suzie Hutchinson* | | | | | | | | |
| **Weston Building** | WF2 | | **S28 Newbies and New Bees -** *Lynfa Davies* | | | | **S37 Introduction to BBKA Basic Assessment -** *Julie Coleman* | | | | | | | | | | | | |
| **Weston Building** | WG3 | | | **W32 How to Graft -** *Marin Anastasov* | | | | | | | | | | | | | | | |
| **Weston Building** | WG4 | | | **W33 Super Natural Formulations -** *Sara Robb* | | | | | | | | **W46 Spring Cleaning -** *Sara Robb* | | | | | | | |
| **Teaching Block** | TG5 | | | | | | **S38 Mind your Back! -** *Geoff Blay* | | | | **S41 Showing Wax -** *Debbie Smith* | | | | **S47 Varroa Resistance Symposium -** *Stephen Martin & Others* | | | | |
| **Teaching Block** | TG8 | | **S29 Swarm Prevention & Control -** *Jim & Val Vivian-Griffiths* | | | | **S39 Handling -** *Lynne Ingram* | | | | **S42 Comb Change: Why What and How?-** *Jane Medwell & Alex Wray* | | | | **S48 Queen Raising on a Small Scale -** *Jim and Val Vivian-Griffiths* | | | | |
| **Teaching Block** | E206 | | | **W34 Making Wax Wraps -** *Angela Kirk* (Meet TB foyer) | | | | | | | **W43 Making Honey Ferments -** *Angela Kirk* (Meet TB foyer) | | | | | | | | |
| **Teaching Block** | E207 | | | **W35 Comb to Candle -** *Shirley & Richard Bond* (Meet TB foyer) | | | | | **W40 Rendering Wax & Making Foundation -** *Andy Anderson* (Meet TB foyer) | | | | | | **W49 Rendering Wax & Making Foundation -** *Andy Anderson* (Meet TB foyer) | | | | |
| **Weston Building** | Exhib Area | | | | | | | | **Online Modules** | | | | | | **Online Modules** | | | | |

**Suggested knowledge levels:** Please refer to the "Lectures" section on pages 14 & 15, and the Workshops & Seminars section on pages 16 & 17 for these.
**Workshop fees:** Please refer to pages 16 & 17.
More information about the speakers/tutors and their topics can be found (in alphabetical order of main speaker's name) on pages 19 – 43.

# Sunday 23 April

| LOCATION | Room | 9.30 | 10.00 | 10.30 | 11.00 | 11.30 | 12.00 | 12.30 | 13.00 | 13.30 | 14.00 | 14.30 | 15.00 | 15.30 | 16.00 | 16.30 | 17.00 | 17.30 | 18.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LECTURES** | | | | | | | | | | | | | | | | | | | |
| **Weston Lecture Theatre** | | | | **Isles of Scilly Game of Drones** *Stephen Fleming* | | | **Pollinator conservation in Ireland** *Jane Stout* | | | | **Understanding apple pollination** *Mike Garratt* | | | | | | | | |
| **WORKSHOPS & SEMINARS** | | | | | | | | | | | | | | | | | | | |
| **Weston Building** | WF1 | **S50 Intro to BBKA Microscopy Assessment** - *Julie Coleman* | | | | **S58 Senses of the Honey Bee** - *John Hendrie* | | | | | | | | | | | | | |
| **Weston Building** | WF2 | **S51 Introduction to BBKA H/B Breeding** - *Marin Anastasov* | | | | **S59 Oil Seed Rape - A Blessing or a Curse?** - *Geoff Blay* | | | | | | | | | | | | | |
| **Weston Building** | WG3 | **S52 Intro to BBKA Plants and Pollinators** - *Sean Stephenson* | | | | **S60 Food Safety Law** - *Andy Pedley* | | | | | | | | | | | | | |
| **Weston Building** | WG4 | **W53 Spring Cleaning** - *Sara Robb* | | | | | | | | | | | | | | | | | |
| **Teaching Block** | TF4 | **S54 Educating & Training for Beekeepers** - *Jane Medwell & Alex Wray* | | | | **S61 Breeding Black Native Bees** - *Michael Collier* | | | | | | | | | | | | | |
| **Teaching Block** | TG5 | **S55 Sustainable Varroa Control** - *Lynfa Davies* | | | | **S62 The truth about honey?** - *Lynne Ingram* | | | | | | | | | | | | | |
| **Teaching Block** | E206 | **W56 Making Honey Ferments** - *Angela Kirk* (Meet TB foyer) | | | | | **S63 Introducing BBKA H/B Health Certificate** - *Anne Rowberry* (Meet TB foyer) | | | | | | | | | | | | |
| **Teaching Block** | E207 | **W57 Advanced Candle Making Techniques** - *Shirley Bond assisted by Richard Bond* (Meet TB foyer) | | | | | | | | | | | | | | | | | |

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Spring Convention 2023
THE BRITISH BEEKEEPERS ASSOCIATION · FOUNDED 1874 ·
C1 Staff/Visitors Car Park
C2 Weston Car Park
C4 Soil Hall Car Park
C5 Bamford Car Park
C6 QMH Car Park
C7 QMH Car Park
C8 Harris Car Park
C9 Harris Overflow
C10 Sport Pitch Car Park
C11 Gloucester Car Park
Arriva Bus 519
Newport
Key Locations
8 - Darby & Darwin Halls
11 - Aspire Centre
14 - Regional Food Academy
15 - Weston Building
21 - Eliz. Creak Labs
22 - Teaching Block
23 - Library & Kaldi Café
24 - Faccenda Reception & Graze
25 - Queen Mother Refectory
40 - Students Union - Tradeshow, & Welly Inn -Speakers Corner
41 - Sports Hall - Tradeshow
63 - Porters Lodge - Security
98 - Cubicle Showers
99 - Route to Beddington
C6 - Mobility parking
C7 - Wax Exch - Pre-orders

# HIVE GATE™ ENABLES EFFECTIVE DEFENCE AGAINST ROBBING





natural solution

IMPROVED HUMIDITY STABILITY

IMPROVED TEMPERATURE REGULATION

**This end is positioned at the hive entrance.**

- This should be the only entrance into the hive.



**This end is positioned inside the hive under the winter cluster location.**

- The upward facing opening is now the new entry/exit of the hive.
- The new entry/exit sits directly under the largest concentration of bees.
- Ensures the bees are on the door 24/7.

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