FEBRUARY 2019

An Hes

'The Swarm'

Newsletter of West Cornwall Beekeepers Association

Secretary: secretary@westcornwallbka.org www.westcornwallbka.org.uk

From the Chair…

I'm writing this as the snow falls on Carn Brae, and feeling smug that I nipped round my hives yesterday to check on stores, entrances and roofs. All quiet on the western front – but what's going on inside? Will have to wait a month or two yet to find out, something I always find difficult each year.

Sad to say goodbye to Hazel Vallis – our brilliant bee inspector. She has been such an asset to WCBCA and we wish her well in her new life. Welcome though to all our new members. Do make yourselves known at meetings etc. – the Association can help you with your new hobby in so many ways. And you can help us too! We are lucky that we do have many members who volunteer for all sorts of activities - which makes the Association as successful as it is. The more you put in – the more you get out I always find. Any volunteers for the Cornwall Conference committee?

Wishing you a fabulous 2019!

Kate Bowyer

Bee Quotes… #18

"Even bees, the little almsmen of spring bowers, know there is richest juice in poison-flowers"

- John Keats

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Save the Date!

Monday 4th Feb. 2019
Winter Meeting with expert beekeeper Tamsin Harris who will talk about Products of the Hive

Saturday 16th Feb. 2019
2nd Conference of Sustainability Beekeeping at the Eden Project

Monday 4th March 2019
At the last Winter Meeting, we welcome Meri Anderson

Saturday 22nd June 2019
Bee Health Day

News

The WCBKA 2018 Honey Show

A particularly enjoyable Honey Show and Christmas Party this year – thank you to the organisers, participants and winners. Judge John Roberts was very complimentary as to the standard of entries – some of which would have been at home on the benches of the National Honey Show!

So to the winners:
Carrie Sparrow (Rejarne Cup – most points in the honey classes);
Anne McQuade (Honey Show Cup – most points in the honey and wax classes combined);
Chy Vellan (Alf Gibbs Memorial - Best Exhibit),
Stephen Smith (New Exhibitors prize).
Other winners of classes included Maggie Freegard, Kate Bowyer, Fred Buckingham, Heather Williams, Sam Elvy, Rachael Roberts, and David Came.
Congratulations All!

Apiary Visits

Why not let other members come and visit your bees? Each year members are encouraged to invite others to come and see their apiaries. This is always a really enjoyable experience for everyone. So, even if you have one or two hives please consider taking part by contacting wcbka.val@gmail.com The visits are usually on a couple of Sunday afternoons in May or June and afterwards we have a cup of tea and a biscuit together and chat about our bees.

Val Hitchman

The WCBKA would like to extend a warm **WELCOME** to our newest members:

Sarah & Timothy Hardy, Brian Collis, Nigel Hicks, Amy Lake, Roger Benney, Graham Hattam, Jane & Keith McIntosh, Sheena Forrestrer & Graham Gibson!

Membership Update

How was 2018 for you and your bees? I hope you can reflect on the year gone by and have no colony losses, plenty of honey and some very healthy bees. Sadly this last twelve months has seen the arrival in the UK of the Asian hornet (aka the "yellow-legged hornet", Vespa Velutina). That's just something else for beekeepers everywhere in the UK to have to contend with along with Varroa Destructor, but we'll learn how to effectively overcome and deal with yet another nuisance and threat to our " Girls" and keep them safe.
West Cornwall Beekeepers Association is your best friend and right at the forefront of keeping you informed, along with BeeBase, as to where Asian hornets are within the West country (& beyond!) & most importantly, if they are anywhere near your bees! SO- if your membership has lapsed you're not going to get those all important notifications or keep up with the news in An Hes! With this in mind, along with all the benefits that being a member brings (I listed the key benefits in December's An Hes) I would like to thank the multitude of members who have already sent me their memberships for the coming year & ask those of you who haven't yet, put pen to membership form & to do so without delay as this month's An Hes will be your last chance! There will be no more reminders sent out! Please don't miss out!!
May I take this opportunity to wish all of you a very Happy New Year and a happy and successful beekeeping season in 2019.

Mac Rowley-Hawkins

Holsworthy Spring Convention - 23rd February at the Memorial Hall in Holsworthy.

Once again Linda has come up trumps with her list of speakers. The main speakers are:
from Ireland Gerry Ryan & Jim Ryan & from Scotland Phil McAnespie.
There will also be a Trade Hall which will be open from 9:00am.
Reception opens at 9:00am. Breakfast butties will be on sale with last orders at 9:45am.
Lectures start at 10:00am and the day finishes around 5:00pm.
Tickets are £18 for Holsworthy members, £20 for non-members and £10 for juniors under 16 years. Ticket application is attached in MSWord and pdf.
Tickets include all teas, coffee, home made cakes and ploughmans lunch with hot puds.

Regards John Conniss - Secretary, Holsworthy Branch, DBKA

Bulk Purchases Update Wax

The wax order, submitted in early January has just arrived from Kembles! I will bring your wax to Monday's Winter Meeting.

Fondant

I just wanted to remind members that we still have plenty of fondant still available so please consider getting your fondant supply now and ensure you have enough at hand just in case of an emergency! Many thanks to Mick Jordan for distributing our fondant. Fondant is available in either a box of 12.5kgs (5x2.5kg slabs) at £15.00 or as individual slabs of 2.5kgs at £3.00 each. Mick has asked if you could please ring him prior to attending on either 01209 860630 or 07974 154472 to arrange a convenient time/day to pay and collect. He resides at North Calvadnack Farm, Polgear, Carnmenellis, Redruth, TR16 6PS. Payment can be by cheque (made payable to West Cornwall Beekeepers Association) or cash. Please state on the rear of the cheque what the payment is for.

Apiguard

In the next few months we will be working out our Apigard order, so try and calculate how much you will be requiring. I will let you know closer to the date when we will be submitting our Apigard order.

Jars

Lastly, glass jars. I understand there are a number of outlets for these but would you please consider submitting an order via the WCBKA as this could facilitate a discount! Again we will be coming back to you in next few months requesting the number and size you require.

If you have any bulk order suggestions, please share them and email me at mjred93@outlook.com

Mark Richards

This Just in…Bee Health Day

Saturday 22nd June 2019 – 9:00-16:30

At the Environment and Sustainability Institute, University of Exeter, Penryn Campus, TR10 9FE

Further details will be sent round in February

Volunteering Opportunities

Why not get more involved by supporting West Cornwall Beekeepers Association through volunteering? It is good fun and we seem to love talking about our bees. Every year we are invited to a range of events so that we can share our enthusiasm for bees with others, show the wider community what we do as beekeepers and inform them about the importance of bees as pollinators. All you need is a bit of time to spare.

The events we are invited to include:

- The annual Farm and Country Day at Cornwall Showground Wadebridge on 27 -28st March. About 750 school children aged 7-9 years come each day to a hands-on experience of farming and food production.
- The Royal Cornwall Show on 6-8th June where our part of the Bee and Honey Section will have a theme of Summer
- Kehelland Apple Day on 12th October where we also do a lot of candle rolling with the children & sell honey
- Talks at other community groups or in schools

If you are interested please contact Val on wcbka.val@gmail.com or talk to one of the committee at the next winter meeting.

Apicystis Bombi

Our last Winter meeting will be on **Monday 4th March** at 7.30pm in Marazion Communty Centre.

Meri Anderson is joining us and her talk will be on 'How widespread is the bumblebee gut parasite *Apicystis bombi* really?' Last summer she took samples of bees from some of our hives as part of the Masters research project that she is doing with the University of Exeter looking at ways of protecting our precious honeybee population. Bees have been a passion of hers since her father became a beekeeper ten years ago, and this has spurred on her keen interest in honeybee research. She has been specifically looking at a gut parasite called *Apicystis bombi*, which is known to infect bumblebees and affects their winter survival by attacking the bees' fat body. In recent studies she has found high prevalence of *A. bombi* in both bumblebees and honeybees in Cornwall, higher than what has previously been reported. However it is yet unknown how *A. bombi* affects honeybee colonies. So do come along to find out the results.

If you can bring a raffle prize it will be most welcomed and after the talk stay and chat over a cup of tea.

South West Region Annual Report 2018

The NBU have published their annual report for the Animal and Plant Health Agency. Regional Bee Inspector Simon Jones wrote the report, which was emailed to all members in January - do read it!

The Wheal Buzzy Project

Wanting to learn more about solitary bees in Cornwall, I went along to the launch of this project at St Ives Guildhall. The project is intended to restore the fortunes of solitary bees in Cornwall, by protecting their habitats and creating flower rich meadows within Cornwall's Area of Outstanding Natural Beauty. I learned that of the 240 or so species in the UK, Cornwall is home to 120, but they are sadly in decline. Remaining hotspot areas for them within the AONB include West Penwith, parts of the Lizard, Godrevy Head to St Agnes and North Cornwall. This includes some post-industrial and old mining areas. The main speaker was Kate Christman who, although a designer who is involved in the manufacture of solitary bee bricks rather than an entomologist, was hugely enthusiastic about the plight of these bees and keen to spread the word. She talks to school children and also founded "Solitary Bee Week." Funded by Heritage Lottery, the project hopes to involve landowners such as the National Trust, local councils, churches and community groups including Bosavern Community Farm and St Ives Community Orchard, by encouraging clearance of scrub, avoiding over grazing and intensive agriculture near solitary bee sites and encouraging flower rich habitats, in all covering 22 hectares at 16 sites across the AONB. They are also keen to involve the public. I found the literature for the Wheal Buzzy Project confusing, conflating as it does the connection between Cornwall's mining heritage and mining solitary bees. There are of course many other species of solitary bee. Not withstanding this, it sounds a worthwhile project attempting to reverse the decline of these bees in the county and to educate the public about these important pollinators.

Anne McQuade

A Goodbye Message from Bee Inspector, Hazel Vallis

I am sorry to leave WCBKA, despite not having taken an active role in the association or even been to meetings for a while, I feel that the group is an example of the best and should be aspired to by other associations. Despite some members having to travel quite a way to meetings etc, the effort is always well rewarded and 'worth it'. The size of the association allows members the benefit not only from a bigger pool of knowledge and resources but also the opportunity to bulk buy-there seems to be a good negotiator/co-ordinator as demonstrated by your wax prices!

I should like to mention some people who have taught me a lot about bees – Anne McQuade who was my mentor – a very knowledgeable lady who speaks her mind but always with the best of intentions. Thank you Anne for everything. Together with Jenny, they organised training and set up the study group. With Sue Holt, they persuaded me to apply for the seasonal bee inspector job & encouraged me to increase my practical skills – the rest is history as they say. I am grateful to Kate Bowyer for her support behind the scenes and all the members I have met over the last 2 to 3 years whilst inspecting in West Cornwall. I have enjoyed meeting you all and wow, what a beautiful place to keep bees! I've been to places I would never have seen otherwise. Thank You all.

Finally, I hope you all have a good and fruitful 2019 and see you soon?

Regards, *Hazel Vallis*

Conference of Sustainable Beekeeping

An event organised in response to increased interest in native and heritage honeybees is to be held at the Eden Project on Saturday February 16th 2019. Eden is one of a number of organisations working together to protect and increase the popularity of our Native Honeybees. The event is organised by The B4 Project. https://www.b4project.co.uk/

Andrew Brown, managing director of B4, said: "Many beekeepers now realise the benefits of working with bees that are either locally Native or locally derived. They can be hardy, productive, healthy, and they are better adapted to their local conditions than honeybees brought in recently. "Bee researchers believe that native bees are an important resource that should not be lost. European studies have shown that locally adapted bees perform better than imported ones, with possible health and survivability benefits." Leading lights of the bee world are gathering at Eden on Saturday February 16th for the event entitled "Sustainable Beekeeping: A Future without Imports 2019 " The morning will see presentations covering research relevant to native and near native bees by collaborating research scientists from across the British Isles.

Saturday Morning

HONEYBEE GENETICS AND ADAPTATION

1. Dr Mairi Knight, Dr Jon Ellis, University of Plymouth:-Understanding honeybee genetics: a layperson's overview. **Address any questions you have on honeybee genetics in advance of the conference to** andrew@aglbrown.co.uk
2. Victoria Buswell:- University of Plymouth Local adaptation in dark European honeybees: preliminary results and a request for help
3. Norman Carreck:- Sussex University using whole genome sequencing to analyse the genetic diversity of the UK honeybee population.

HONEBEE CONSERVATION AND SUSTAINABLE BEEKEEPING

1. Dr Mark Barnett Edinburgh University:-The need to conserve the Dark European honeybee.
2. Dylan Elen, Bangor University:- How to breed better Dark Honeybees.
3. Prof Grace P McCormack, National University of Ireland Galway:-Feral bees and Irish proposals for rewilding

Saturday Afternoon

Apiary group contributions from the South West, presenting achievements, goals, events and participation opportunities. Delegates can choose from presentations by representatives from Shebbear Black Bee Conservation Group, West Devon Bee Improvement Group, Cornwall Bee Improvement and Bee Breeders Group, Mount Edgcumbe Cornish Bee Group, Project B5, Somerset British Black Bee Conservation Group, Marley Farm Apiary, South Brent and Blackdown Hills Black Bee Conservation Group. There will be a chance to have a tour of The Eden Exhibition, "Plan Bee", led by Dr Jo Elworthy (Director of Interpretation).

From Sunday, February 17th February there will be optional visits to the localities of the apiaries mentioned above. Non beekeepers as well as beekeepers are welcome to attend. For more details these events and for booking tickets see https://www.b4project.co.uk/upcoming-events

In 2018 Dr Mike Maunder, Eden's Director of Life Sciences said: "The UK's native honeybees, like our native livestock breeds and vegetable crops, are of immense genetic, cultural and economic value. More than ever the UK needs to plan for resilient landscapes and food production systems - healthy bee populations are key to this vital ambition. At Eden we are managing our estate and gardens as a refuge for pollinators such as bees. This summer visitors to Eden will enjoy spectacular wild flower fields that have been sown as part of our ecological regeneration work." The B4 Project is a Community Interest Company representing a group of beekeepers whose aim is to protect the UK's native honeybee, *Apis mellifera mellifera*. The Heritage Lottery Fund has supported a partnership between B4, Eden, Paignton Zoo, the Lost Gardens of Heligan, and Paradise Park. This enabled B4 to commission preliminary genetic research which revealed that, while there has been a great deal of hybridisation, Cornwall still retains some relatively pure specimens of *Apis mellifera mellifera*.

Exhibition Plan Bee: Save the Pollinators. January 26th - March 17th 2019 at The Eden Project, Cornwall

This exhibition can be found on the top floor of The Core Building, The Eden Project. It includes fantastic artwork by three contemporary artists; the conservation activist and world-renowned artist, Kurt Jackson, the internationally acclaimed architectural artist, Wolfgang Buttress, and the honeybee and floral artist, Amy Shelton. Moreover there will be microscopy of the honeybee, displayed and demonstrated by the scientific team at Eden and Kernow Microscopical Society, and Electron Microscopy from Plymouth University. Apart from a series of educative posters in the exhibition itself, there will be a series of talks and workshops from beekeepers, conservationists and microscopists on various days throughout the exhibition. For more details see http://www.edenproject.com/plan-bee

The exhibition has been funded through The B4 Project https://www.b4project.co.uk/by Patagonia Environmental Grants Fund of Tides Foundation, Patagonia. Anyone interested in invigilating for this exhibition please contact Andrew Brown of the B4 Project andrew@aglbrown.co.uk

"The Ethics of Beekeeping" by John Whittaker

A Review by Anne McQuade

What, you might think, is the relevance of ethics to beekeeping? Well, John Whitaker, Master Beekeeper and former member of the BBKA Exam Board, thinks quite a lot- and I agree.

In this slim volume, a copy of which is in our library, John poses many ethical questions which we as beekeepers should be asking ourselves. After an introduction to the many strands of moral philosophy described in an approachable way, he defines ethics as 'the study of whether an action or intention is right or wrong.'

Now before you think that this is too dry or erudite, let me ask if you agree that we beekeepers tend to think of ourselves as the good guys. Do you really? When I hear of beekeepers knowingly allowing a colony to 'die out' unknown cause, I wonder-and worry!

His starting point is to state unequivocally that 'when beekeepers choose to keep honey bees, they are taking on a responsibility, a duty of care towards them,' as one would for farm animals or pets. But honey bees are still feral creatures; so when we take them from their natural environment, we take on responsibility for their welfare.

Incidentally, ownership applies only when the bees continue to live in the beekeeper's hive, and ceases when they swarm or abscond.

In this book, the author suggests some areas where, in beekeeping, there are ethical choices to be made. He acknowledges that the choices are complicated and multifaceted because they impinge on the beekeeper, on the welfare of their bees, on other beekeepers and on society in general.

Let me suggest that you consider some of the questions which he poses. I have to say here that with few exceptions, he gives few answers. He just invites the reader to consider the arguments.

Is it ethical to put bees in a movable frame hive for the beekeepers' convenience, very different from the nest site feral bees would choose?

Now that sugar is available from other sources, should we remove any honey? Beekeepers tend to think that they have the right to take the honey which is there to take. Whether we do or do not, we have a responsibility to ensure that our colonies are provided with sufficient stores-at all times of year.

Is it ethical to overpopulate our apiaries especially if there is insufficient forage. Overpopulated apiaries can also impact the health of our colonies. In the wild, colonies are dispersed by swarming so that they are widely separated.

Is it ethical not to be informed about bee diseases and pests, unable to recognise them? About this, he does have a definite opinion- 'We have a responsibility to keep our bees as healthy as possible, not just for the wellbeing of our bees, but also for those of our neighbours and indeed of feral colonies'. To this I would also add that there is some evidence of honey bee diseases being found in the 'wild' bee population in the vicinity of honey bee apiaries.

Is it ethical not to treat for varroa? Should we choose to not do so in the hope that the bees will develop tolerance? But our neighbours' bees will visit our collapsing colonies and reinfest their own.

Should we try to prevent swarming when it could be argued that swarming may be beneficial to bees' health? It also creates a pool of feral colonies enhancing genetic diversity, possibly developing varroa tolerance. But if a feral colony develops disease such as foul brood, other nearby colonies can become infected. And swarms are inconvenient and society doesn't tolerate them. Indeed should we even mark and clip queens?

When it comes to queen rearing and bee breeding, is it ethical to select characteristics for the benefit of the beekeeper, such as temper, low swarminess or low propolis rather than allowing natural selection, which might of course result in poor colonies to 'die out'! If we keep bad tempered bees, because we cannot control mating, then our drones will mate with other beekeepers' bees, and affect their temper. And bad tempered bees can also affect members of the public.

There is a section on Natural Beekeeping, considering the arguments for and against.

He even has something to say about our responsibilities to our beekeeping associations and our fellow members; that although beekeeping is very often a solitary activity, most of us take the benefits of membership without stepping up to help with the running of the association or to help other members.

This is an important, thoughtful and thought provoking book, far ranging in its reach extending beyond beekeeping and even touching on population and consumption, done with a lightness of hand, discussing the questions in a non-judgemental way, that we beekeepers should be asking. I have given only a few examples of the questions that he raises. He gives few answers, but outlines the argument to be had. The ethics of beekeeping is not straightforward, but we should think about these questions, and ask ourselves 'Are we really such good guys?'

I strongly recommend it. It can be read in an evening!

As the education coordinator for WCBKA, a good start would be to consider whether we could all do more to educate ourselves so that we can begin to debate some of these ethical dilemmas.

Anne McQuade

New Members and Bee Insurance

There are two types of insurance that are of benefit to beekeepers. BDI insurance covers hive parts and bees when they are diseased and the new Beekeepers Insurance covers your equipment against theft. Last year BBKA announced the launch of a new insurance specifically for beekeepers. I took a look at the cover provided and I was surprised (Pleasantly!!) to see just how comprehensive it is and how reasonable the premiums are. Every year we have an influx of new beekeepers to which all of this information about their new passion must be bewildering and having BDI insurance as part of the full membership must be the end of thoughts regarding insurance. Some clarification I feel is needed here.

BDI (Bee Disease Insurance) is the cover included with a full membership that gives a very basic return if the bee inspector comes out to inspect your colonies, determines that they have either AFB (American Foul Brood) or EFB (European Foul Brood) and must be destroyed. The destruction will often include the hives that the colonies are in and any associated equipment, any payment made by BDI will not return the market value of what has been destroyed and destruction is by fire to ensure that the destruction of the disease is absolute.

House Insurance. Your house insurance will not cover your bees and equipment being destroyed unless you keep them in the house

I have put below information taken from BBKA's website regarding the new insurance provided by Buckland Harvester Insurance Brokers and classed as "All risks insurance" and this is the link to take you there: https://www.bbka.org.uk/all-risks-insurance

WCBKA can only point you in the direction of what the association considers to be a good deal and as with all things it will be up to the individual beekeeper to determine if it is for them or not.

The New beekeepers Insurance

BBKA have introduced a NEW insurance specifically for beekeepers who are BBKA members. Below is some of the information taken directly from the insurance website regarding cost and cover. They even give you a ready reckoner to assess just how much cover you need. If this is something you think you may benefit from then visit the site at the address above

WHAT'S INSURED? Apiaries: hives, parts & accessories; Out apiaries, hives, parts & accessories; Workshops & workbenches; Electrical equipment; Honey extractors, smokers ; Trophies & silverware.; Clothing (such as bee suits, whitecoats, gloves); Exhibition stands and content; Microscopes, books; General Equipment; Bee colonies; Stock (including honey, jars, labels & candles); Optional Buildings.

WHAT'S NOT INSURED? Damage caused by wear & tear; Bees from disease, natural death, smoking or swarm; Policy excess: £50 (unless stated otherwise); Corrosion, change in temperature; Mechanical or electrical breakdown.

WHAT ARE MY OBLIGATIONS? Insure your equipment and stock for the full replacement value (across all locations if applicable); Advise Buckland Harvester of anything relevant to your cover (called Fair Presentation of Risk); Advise Buckland Harvester of any significant changes during the years cover; Take reasonable care to minimise activity or situation that may cause damage or loss.

HOW DO I CANCEL THE CONTRACT? Within 14 days of receiving documentation (if dissatisfied), or if you cease beekeeping. It will renew automatically (subject to payment being successfully collected) unless cancelled by the policyholder. Written notice of renewal will be sent out 14-28 days before renewal is due.

ARE THERE ANY RESTRICTIONS ON COVER? Theft from unattended vehicle (unless locked)

WHERE AM I COVERED? Anywhere in Great Britain, Northern Ireland, the Channel Islands & the Isle of Man.

WHEN DOES THE COVER START AND END? Cover is for 12 months from the date taken out online.

WHEN AND HOW DO I PAY? Online, as cover is being arranged.

Mac Rowley-Hawkins

What's On?

The WCBKA's **Winter Meetings** and **Better Beekeeping** meetings take place on Mondays at 7:30pm

At **Marazion Community Centre**, Gwallon Lane, Marazion, TR17 0HW

Monday 4th February 2019 - Winter Meeting with Tamsin Harris

Tamsin is joining us to talk about Products of the Hive and she has a special reputation for her salves and balms. Tamsin has been a beekeeper since 1998 and currently has around 60 hives of bees. Tamsin sells honey in various forms and numerous products of the hive such as beeswax candles, furniture polish, candle rolling kits, balms and salves. If you can bring a raffle prize it will be most welcomed and after the talk stay and chat with a cup of tea.

Saturday February 16th 2019 - 2nd Conference of Sustainable Beekeeping: A Future Without Imports?

Monday 18th February 2019 – Better Beekeeping Meeting

Bee Improvement, Queen Selection, basic Queen Rearing, Where to Source Bees, Nucs – their uses and how to make on up

Saturday 23rd February – Holsworthy Spring Convention

Holsworthy Memorial Hall

Monday 4th March 2019 - Winter Meeting with Meri Anderson

Meri will be attending to share the results of her work on apicystic bombi and the affect on honeybees (see the News page for details)

Monday 18th March 2019 – Better Beekeeping Meeting

Swarming – its prevention and management, Collecting a Swarm, Supersedure, Drone Laying Queens (DLQs) & Laying Workers

Saturday 30th March 2019 – Avon Spring Day School

Shipham Somerset (£10 see ABKA website or contact annrowberry@gmail.com) Celia Davis headlines this year's event

Monday 1st April 2019 - Winter Meeting

Details of this meeting are TBC

Monday 15th April 2019 – Better Beekeeping Meeting

Everything else – local flora, forage through the season, the beekeeper's year, siting hives, avoiding nuisance, stings, the importance of bee space top & bottom, equipment needed for starting out, and a nosema testing workshop

Saturday 22nd June 2019 – Bee Health Day

A return to Penryn campus for our popular Bee Health Day, at the kind invitation of Professor Juliet Osborne. The event was last held there in 2015 and was a great success. Plenty of parking, a comfortable venue, and informative workshops, including Asian Hornet, diseased comb recognition and practical apiary inspections.