

CAPA News

Canadian Association of Professional Apiculturists (CAPA)

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Upcoming Events

- Eastern Apicultural Society Annual Conference, Shepherdsville, KY, Jul 27-31, 2026.
- Entomological Societies of Canada & Manitoba, Winnipeg, Oct 4-7, 2026. (Incl. Honey Bee Symposium)
- Entomological Society of America, Columbus, OH, Nov 8-11, 2026.

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CAPA President's Message

Dear colleagues,

It is with great enthusiasm that I write to you as the newly elected President of the Canadian Association of Professional Apiculturists (CAPA). As we begin this new mandate, I would like to sincerely acknowledge the dedication and leadership of our outgoing Executive Committee. I extend my sincere thanks to Dr. Ernesto Guzman, President; Dr. Renata Labuschagne, Vice President; Dr. Shelley Hoover, Past President; Dr. Leslie Holmes, Treasurer; and Dr. Nuria Morfin, Secretary, for their outstanding contributions, which have strengthened CAPA's foundation.

I am also pleased to introduce the new Executive Committee:

- Derek Micholson, Vice President
- Dr. Ernesto Guzman, Past President
- Dr. Abigail Chapman, Secretary
- Alexandra Panasiuk, Treasurer

Our new CAPA Executive remains committed to engaging our entire membership, serving as a collective 'hive-mind' of professional knowledge and expertise. We also look forward to strengthening collaboration and communication with the broader beekeeping industry to support knowledge transfer, address sector challenges, and promote sustainable apiculture in Canada. Please reach out with questions or suggestions. I look forward to working with all of you.

With best regards, Dr. Pierre Giovenazzo - CAPA/ACPA President

CAPA News Editorial Board Message

Dear Readers,

This is the fifth issue of *CAPA News*. What began as a simple effort to share CAPA member and association activities with the beekeeping community through online postings has quickly expanded to include print publications in French in *L'Abeille* and in English in *HiveLights*.

CAPA's primary published communication with the industry has traditionally been through the annual National Winter Loss Report and the long-running and widely distributed *Honey Bee Pests and Diseases* book. However, there is an iteration of CAPA News that came before this one that is archived in Beaverlodge. As we revive the CAPA News production and continue refining the content of this newsletter, we thank you for your engagement and hope you remain curious and benefit from learning about CAPA's activities and the work of its members.

– Rassol Bahreini (AB), Cameron Menzies (P.E.I.), Matthew Polinsky (MB)



2026 CAPA AGM group photo in Calgary



Outgoing CAPA Executive (left to right):
Shelley Hoover, Renata Labuschagne, Leslie Holmes,
Ernesto Guzman, Nuria Morfin

List of Registered Pest Control Products and Antibiotics for Honey Bees in Canada

Disclaimer: Table is current as of February 2026 according to information available on Health Canada's Pesticide Products Information Database and Drug Product Database. Product registrations, label requirements, and approved uses may change at any time. For the most current and official information on registered products in Canada, please consult Health Canada's websites: <https://pr-rp.hc-sc.gc.ca> ; <https://pest-control.canada.ca/pesticide-registry/en/product-search.html>; <https://health-products.canada.ca/dpd-bdpp/dispatch-repartition>.

See table on the following page.

List of Registered Pest Control Products and Antibiotics for Honey Bees in Canada

Class	Target	Trade name	Active Ingredient	Mode of Action	Formulation (Dose)	Registrant	Info Link
Miticides	Varroa	Apistan	<i>Tau</i> -Fluvalinate	Inhibiting sodium channel modulators	Strip (10.25%)	Wellmark Int'l/ Vita Bee Health	Link
	Varroa	Apivar	Amitraz	Inhibiting octopamine receptors	Strip (3.3%)	Veto-Pharma	Link
	Varroa	Bayvarol	Flumethrin	Inhibiting sodium channel modulators	Strip (3.6mg/strip)	Bayer Inc.	Link
	Varroa/ Tracheal mites	Formic Pro	Formic Acid	Asphyxiation (death from lack of oxygen)	Strip (42.25%)	Nod Apiary Products Ltd.	Link
	Varroa/ Tracheal mites	Mite Away Quick Strips (MAQS)	Formic Acid		Strip (46.7%)	Nod Apiary Products Ltd.	Link
	Varroa/ Tracheal mites	Formic Acid 65%	Formic Acid		Liquid (65%)	Vita Bee Health Canada Ltd.	Link
	Tracheal mites	Formic Acid 65%	Formic Acid		Liquid (65%)	Nod Apiary Products Ltd.	Link
	Varroa/ Tracheal mites	Mitegone (Formic acid 65 % for use with mitegone kits)	Formic Acid		Pad (65%)	Hoetmer Honey Company Inc.	Link
	Varroa	Oxalic Acid Dihydrate	Oxalic Acid Dihydrate (solution, vaporization and glycerin strip method)	Unknown	Crystal (99.65%)	Canadian Honey Council	Link
	Varroa	Thymovar	Thymol	Unknown	Strip (15g/wafer)	Andermatt Canada Inc.	Link
	Varroa	Hopguard 3	Potassium Salt Of Hops Beta Acids	Unknown	Strip (4 g/strip)	Betatec Hop Products, Inc.	Link
	Varroa	Api Life Var	Thymol/eucalyptus oil/menthol/ racemic camphor	Unknown	Strip (76%/16.4%/3.8%/3.8%)	Chemicals Laif S.P.A	Link
	Varroa	Apivar 2.0	Amitraz	Inhibiting octopamine receptors	Strip (3.00%)	Veto-Pharma SAS	Link
	Varroa	Amiflex	Amitraz	Inhibiting octopamine receptors	Gel (1.99%)	Veto-Pharma SAS	Link
	Varroa	VarroxSan	Oxalic Acid Dihydrate	Unknown	Strip (18.42%)	Vita Bee Health Canada Ltd.	Link
Larvicide	Greater Wax Moth	B402 biological larvicide (Certan)	<i>Bacillus thuringiensis</i> subsp. <i>Aizawai</i> strain ABTS-1857	Ingestion of protein crystals	Spray (10.8%)	Vita Europe Ltd	Link
Antibiotics	Nosema	Fumagilin-B	Fumagillin Dicyclohexylamine	Inhibiting methionine aminopeptidase 2 enzyme	Powder (21 mg/g)	Vita Bee Health Canada Ltd.	Link
	AFB/EFB	Oxysol-62.5	Oxytetracycline Hydrochloride	Inhibiting protein synthesis	Powder (62.5 mg/g)	Can-Vet Animal Health Supplies Ltd.	Link
	AFB/EFB	Vita Oxytet 62.5	Oxytetracycline Hydrochloride		Powder (62.5 mg/g)	Vita Bee Health Canada Ltd.	Link
	AFB	Tylan	Tylosin tartrate		Powder (100 g/jar)	Elanco Canada Ltd.	Link
	AFB	Lincomix	Lincomycin hydrochloride		Powder (400mg/g)	Zoetis Canada Inc.	Link

2025 Committee Updates

National Winter Loss Committee

In 2025, the National Survey Committee primarily worked on the winter loss survey. A thorough revision of the core questions was completed in order to streamline the questionnaire. Provinces are free to add questions or ask for more detailed answers in their provincial surveys, however the data required for the national report is more concise. All core questions and definitions take into account the large diversity of beekeeping industry profiles and seasonal activities within each province. This year, the minimum number of colonies required to be included in the national report was set to 20 for Newfoundland and Labrador, 25 for Prince Edward Island and 10 for British Columbia. Since 2021, the committee has published an early preliminary report followed by a complete final statement and has also set deadlines after which the report would be published with or without each province's data. In 2025, the preliminary report was published on July 7, which included the winter mortality and methodology used by each province (with British Columbia data missing). It was shared with the industry to help them better answer media inquiries early in the season. The final statement was published on December 17, 2025.

Table 1. Survey parameters and honey bee colony mortality (2024-2025) by province

Province	Total number of colonies operated in 2024	Estimated number of colonies lost based on the estimated provincial winter loss	Type of data collection	Number of beekeepers targeted by survey	Number of respondents (% of participation)	Minimum size of beekeeping operations targeted by survey (# of colonies)	Number of respondents' colonies that were wintered in fall 2024	Number of respondents' colonies that were alive and viable in spring 2025	Percentage of surveyed colonies as a proportion of the total number of colonies in the province	Provincial Winter Loss including Non-viable Colonies
Newfoundland and Labrador	837	108	Email, Phone, Online	21	12 (57%)	20	708	617	85%	12.9%
Prince Edward Island	4 500	1 031	Email, Phone	25	15 (60%)	25	3 985	3 072	89%	22.9%
Nova Scotia	30 873	5 658	Email, Online	48	34 (71%)	50	21 587	17 631	70%	18.3%
New Brunswick	13 778	6 164	Email	40	19 (48%)	50	7 924	4 379	58%	44.7%
Quebec	65 229	15 305	Online	110	68 (62%)	50	39 905	30 542	61%	23.5%
Ontario	83 977	31 357	Online, Phone	223	60 (27%)	50	20 019	12 544	24%	37.3%
Manitoba	114 000	49 162	Online, Phone	208	66 (32%)	50	49 772	28 308	44%	43.1%
Saskatchewan	95 000	41 619	Online	240	76 (32%)	100	37 926	21 311	40%	43.8%
Alberta	303 508	126 920	Online, Email, Phone	154	76 (49%)	100	245 464	142 817	81%	41.8%
British Columbia	84 555	36 003	Online	675	121 (18%)	10	7 769	4 461	9%	42.6%
Canada	796 257	313 327		1 744	547 (31%)		435 059	265 682	55%	39.3% ¹

¹This number is the total loss calculated over all colonies in Canada. The full winter loss report is available at: <https://capabees.com/capa-statement-on-honey-bees/>



Integrated Pest Management Committee

The CAPA-IPM Committee met in 2025 to share research updates, review regulatory issues, and connect on shared IPM efforts. In particular, the committee discussed emerging treatment applications in Canadian beekeeping, several new products for *Varroa* control that were approved in 2025, including VarroSan™, Apivar 2.0®, and Amiflex®, and other products which were under review in 2025 such as Norroa™ and oxalic acid glycerin strips. In February of this year, Health Canada approved and added the oxalic acid glycerin method to the existing oxalic acid label. The committee kept each other up-to-date on the numerous projects done in 2025 on *Varroa*, foulbrood, and *Nosema* management by multiple Canadian universities, tech transfer programs, and federal researchers. This work includes resistance surveillance, new treatment delivery systems, bee breeding, pathogen surveillance, and overwintering studies. Key updates include testing of a new acaricide (compound 3c), ongoing miticide resistance screening across multiple provinces, trials of novel miticide prototypes, and evaluation of the Dalan American Foulbrood vaccine. The CAPA IPM Committee also collaborated with the CHC–Hive Health Committee on priority honey bee pest and disease issues.

Tropilaelaps Committee

The Tropilaelaps Committee was formed in early 2025 to help CAPA members familiarize themselves with the mite and prepare in case of its arrival. The committee aims to gather and review the latest research on *Tropilaelaps*, share practical, science-based information with beekeepers, and provide guidance on surveillance and management tools. It may also respond to stakeholder requests by offering input on surveillance and response planning, while supporting beekeeper education and proactive approaches to prevention and early detection. Over the past year, the committee has been learning from researchers around the world, including presentations at the COLOSS and Apimondia conferences and online workshops.

A few key takeaways so far:

- Detection: Several monitoring methods are used in places like Thailand, including brood inspections and sticky boards; PCR eDNA testing appears to be the most sensitive detection method – but requires lab work.
- Control options: Formic acid currently looks more effective than synthetic miticides, particularly when combined with brood interruption.
- Low efficacy of some synthetic miticides, including amitraz slow release, has been reported in *Tropilaelaps mercedesae* – Jeff Pettis's recent work revealed that Amiflex may have potential to control the mite.

The committee also reviewed research on several other important topics, including:

- How long *Tropilaelaps* mites are suspected to survive on adult honey bees.
- Evidence that the mites may be able to overwinter in colder regions such as South Korea and Georgia.
- What infestation levels are needed for mites to spread between colonies.

Looking ahead, the committee plans to co-host a national CHC–CAPA webinar focused on *Tropilaelaps* biology, global research updates, potential IPM strategies, and key knowledge gaps for Canada.

Canadian Bee Technology Transfer Programs (CAN-BTTP) Committee

In 2025, the CAN-BTTP committee met multiple times to discuss regional challenges, research projects, and communication tools. They also hosted a large online meeting for all tech transfer program team members to foster collaboration and strengthen their professional network. To support this effort, the committee commissioned a CAN-BTTP logo to enhance the identity and visibility of Canadian tech transfer programs, reflecting the research and extension work of CAN-BTTPs across the country. During the 2025 bee season, more than 25 individuals were employed by tech transfer programs across Canada, representing a tremendous opportunity to leverage diverse skills and connections to achieve shared goals. The committee partnered with the CHC and Véto-pharma to assemble a dedicated team of organizers to plan and host a national webinar on March 15, 2025. A second edition of this webinar series is scheduled for March 18 and 25, 2026, and is now available on YouTube. While a vast amount of online educational content exists, the goal of this series is to curate practical information specific to Canadian beekeepers that they can put into practice in the upcoming season. Check with your local tech transfer program for links to these videos. Efforts continued to explore a collaborative national CAN-BTTP project, linked with CHC liaisons to advance recommendations from the 2022 Industry–Government Honey Bee Sustainability Working Group. Despite strong industry support, a government funding mechanism has not yet been secured. In December 2025, the co-chairs met with the chair of the Canadian Bee Research Fund to explore potential funding pathways and outlined steps to assess feasibility for future CAN-BTTP joint projects.

Non-Apis Committee

The Non-*Apis* Committee met in 2025 to review ongoing work related to leafcutter bees, bumble bees, and pollinator habitat initiatives. The committee is pleased to note that research led by Dr. Gail MacInnis on new control products for *Pteromalus venustus*, a parasitic wasp that damages leafcutter bee (*Megachile rotundata*) cocoons, is progressing well. This work is urgent considering Dichlorvos strips to control the pest were deregistered in 2023. Dr. MacInnis's work shows initial promise for essential-oil-based formulations as a chemical control method of the wasp. Data will soon be submitted to PMRA and field trials in AB, SK, and MB with the carrier oils will continue in 2026. Leafcutter bee demand remains strong, with Prairie provinces reporting ~94,000 acres of alfalfa seed production in 2025 with an increase expected in 2026. The market for leafcutter cocoons is therefore steady and climbing with prices around \$100 and higher per gallon. The committee also monitored reports of common Eastern bumble bees (*Bombus impatiens*) observed outside greenhouses in BC in early 2025, suggesting ongoing escapees. The UBC-led *B. impatiens* working group, intended to foster U.S.–Canada collaboration, did not meet in 2025, leaving its future uncertain. Regarding pollinator Habitat Initiatives: A few rural municipalities in Saskatchewan are exploring adding pollinator forage to roadside seeding mixes that they use when construction takes place on their roads. Similar discussions occurred in Manitoba in 2025, though progress has been slow due to cost and weed-management concerns. The committee discussed leveraging seed company donation programs (e.g., West Coast Seeds, OSC Seeds) to support habitat projects.

Africanized Honey Bees Committee

In 2025, the Africanized Honey Bees Committee monitored reports of Africanized Honey Bee (AHB) movements and reviewed the most recent testing research. Africanized honey bees (AHBs) are a defensive hybrid strain of honey bees derived from *Apis mellifera scutellata* that have expanded through the southern United States since their introduction in 1956. They are confirmed in several states including California, Texas, Florida, and Georgia. It is possible AHBs are continuing to move northward in California but recent research has struggled to accurately verify this through genetic detection. AHBs in California are likely hybridizing with European honey bees (*Apis mellifera*), resulting in false positives in the commonly used mitochondrial DNA (mtDNA) test. Adding more confusion is the tendency for alternate genetic testing methods, like nuclear DNA testing, to contradict the level of AHB genetics detected in the same population of bees via mtDNA testing. Single Nucleotide Polymorphism (SNP)-based testing on the other hand, developed since 2015, provides far higher accuracy but is cost-prohibitive. The Canadian National Honey Bee Health Surveys conducted in 2016 and 2017 detected AHB genetics in many Canadian apiaries via mtDNA testing. These same samples were subsequently cleared of Africanization after being analysed with a nuclear SNP test. For Canada, the potential long-term risk of AHB introduction remains as Canadian beekeepers annually import queens from the U.S. Ongoing mitigation requires coordinated surveillance, updated testing standards, and contingency plans to protect Canada's beekeeping industry from accidental AHB introduction.

Bee Importation and Movement Committee

The Bee Importation and Movement Committee continued to work closely with Provincial Apiarists throughout 2025 to address honey bee importation issues, sharing information with the CAPA executive and the Canadian Honey Council (CHC) when needed. A major issue of relevance to this committee for the second consecutive year was high *Varroa* levels in New Zealand package imports. Sampling in one shipment to Manitoba showed infestations up to 7% (1.6% average). The committee shared these concerns with CFIA, who determined that some exporting beekeepers have been misinterpreting Canadian importation requirements, particularly around treatment protocols and maintenance of compliance thresholds. Other importation issues of note were small hive beetle in queen imports from California and import delays with Italian queens after CFIA revoked the traditional shipping route shortly before the 2025 season, which resulted in queen losses. According to CFIA, both issues have since been adequately addressed. Regarding *Tropilaelaps* mite risk, CAPA wrote to CFIA to propose they consider reviewing surveillance measures for imports from Denmark, Italy, and Malta. Overall, persistent issues with *Varroa*, SHB, and emerging *Tropilaelaps* concerns remain areas of continued attention for BIMC, Provincial Apiarists, and the CHC.

Summaries provided by: Cameron Menzies and Matthew Polinsky

New Publications

List of articles published in 2025 that are authored by individuals who are CAPA members

Provided by: Research Committee, Dr. Olav Rueppell

- Abdollahi, M., Y. Zhu, H. R. Guimarães, N. Coallier, S. Maucourt, P. Giovenazzo, and T. H. Falk. 2025. Audio modulation spectral features for improved honeybee colony population prediction. *IEEE Sens. J.* 25: 44378–44391.
- Bahreini, R., J. González-Cabrera, C. S. Hernández-Rodríguez, S. Moreno-Martí, S. Muirhead, R. B. Labuschagne, et al. 2025. Arising amitraz and pyrethroid resistance mutations in the ectoparasitic mite *Varroa destructor* in Canada. *Sci. Rep.* 15: 1587.
- Beaurepaire, A., L. Straub, P. Neumann, G. W. Otis, and V. Dietemann. 2025. Avenues towards reconciling wild and managed bee proponents. *Trends Ecol. Evol.* 40: 7–10.
- Brown, A. F., P. Giovenazzo, M. Paillard, et al. 2025. Common herbicide impairs fertility but not survival in bumblebees, *Bombus impatiens*. *Sci. Rep.* 15: 42276.
- Chapman, A., A. McAfee, K. L. C. Wrightson, A. Alcázar Magaña, D. R. Tarpy, J. D. Fine, Z. Rempel, K. Peters, R. W. Currie, S. E. R. Hoover, and L. J. Foster. 2025. Honey bee egg composition changes seasonally and after acute maternal virus infection. *Sci. Rep.* 15: 9031–9051.
- Colwell, M. J., S. F. Pernal, and R. W. Currie. 2025. Mechanical transfer of honey bee (Hymenoptera: Apidae) virus sequences to wax by worker traffic and aerosolization. *J. Insect Sci.* 25: 9.
- Daisley, B. A., C. V. Macpherson, D. J. L. Brettingham, A. E. Moore, G. J. Thompson, and E. Allen-Vercoe. 2025. Impacts of antibiotic use, air pollution and climate on managed honeybees in Canada. *Nat. Sustain.* 8: 1087–1099.
- De la Mora, A., P. H. Goodwin, N. Morfin, T. Petukhova, and E. Guzman-Novoa. 2025. Diversity of potential resistance mechanisms in honey bees (*Apis mellifera*) selected for low population growth of the parasitic mite *Varroa destructor*. *Insects* 16: 385.
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- Fouks, B., K. J. Miller, C. Ross, C. Jones, and O. Rueppell. 2025. Alternative double-strand break repair pathways shape the evolution of high recombination in the honey bee, *Apis mellifera*. *Insect Mol. Biol.* 34: 185–202.
- Giovenazzo, P., N. Nedic, P. Kryger, M. Meixner, and J. Wilde. 2025. Drone biology and rearing. In: C. Costa, M. Meixner, N. Carreck, A. Uzunov, and R. Büchler (eds.), *Sustainable Honey Bee Breeding: A Scientific Guide for Future Beekeeping*. Springer, Cham.
- Giovenazzo, P., A. Uzunov, M. Meixner, and P. Kryger. 2025. Mating biology. In: C. Costa, M. Meixner, N. Carreck, A. Uzunov, and R. Büchler (eds.), *Sustainable Honey Bee Breeding: A Scientific Guide for Future Beekeeping*. Springer, Cham.
- Guimarães, H. R., M. Abdollahi, Y. Zhu, N. Coallier, S. Maucourt, P. Giovenazzo, and T. H. Falk. 2025. Benchmarking self-supervised audio representations for IoT-enabled acoustic beehive monitoring. *IEEE Internet Things J.* 12: 45000–45010.
- Guzman-Novoa, E., N. Morfin, B. Dainat, G. R. Williams, J. van der Steen, A. Correa-Benítez, and K. S. Delaplane. 2025. Standard methods to estimate strength parameters, flight activity, comb construction, and fitness of *Apis mellifera* colonies 2.0. *J. Apic. Res.* 64: 533–554.

New Publications

- Holmes, L. A., J. Kearns, N. McCormick, E. Olson, L. Ovinge, P. Wolf Veiga, R. B. Labuschagne, and S. E. Hoover. 2025. Queen honey bee (*Apis mellifera*) survival and colony performance after overwintering mated queens indoors. *J. Econ. Entomol.* 118: 1512–1518.
- Holmes, L. A., P. W. Veiga, J. S. Pettis, M. M. Guarna, and S. E. Hoover. 2026. A non-invasive method for profiling the gut microbiome and virome of honey bee queens. *Sci. Rep.* 16: 2318.
- Houriet, J., P.K. Manwill, A. Alcázar-Magaña, V.M. Anderson, M.A. Beniddir, S. Bertrand, J. Choi, T.N. Clark, L.J. Foster, M. Halabalaki, A.K. Jarmusch, N.F. de Jonge, A. Khadilkar, J.B. MacMillan, C.S. Maier, L.C. Marney, G. Marti, E.V. Mikropoulou, D. Olivier-Jimenez, A. Perez, J.J.J. vanderHooft, M.M. Zdouc, R.G. Linington, and N.B. Cech. “Multilaboratory Untargeted Mass Spectrometry Metabolomics Collaboration to Identify Bottlenecks and Comprehensively Annotate A Single Data Set.” *Analytical Chemistry.* 27.30 (2025): 16110 – 16122.
- Lamothe-Boudreau, M., and P. Giovenazzo. 2025. Physiological qualities of honey bee queens (*Apis mellifera*) overwintered in banks. *J. Apic. Res.* 1–13.
- Lévesque, M., F. McCune, V. Fournier, and P. Giovenazzo. 2025. Historical agroeconomic analysis of the relationship between commercial pollinator use and *Vaccinium angustifolium* yield in Quebec, Canada (2015–2021). *J. Econ. Entomol.* 118: 3052–3065.
- Lu, R. X., A. Ibrahim, O. Rueppell, E. Plettner, and S. F. Pernal. 2025. Field trials of the novel varroacide, 1-allyloxy-4-propoxybenzene, against *Varroa destructor* in Western Canada. *Sci. Rep.* 15: 40183.
- MacInnis, C. I., L. Luong, and S. F. Pernal. 2025. Effects of *Nosema ceranae* and *Lotmaria passim* infections on honey bee foraging behaviour and physiology. *Int. J. Parasitol.* 55: 213–223.
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- McAfee, A., N. Alavi-Shoushtari, R. Labuschagne, L. Tran, H. Common, H. Higo, S. F. Pernal, P. Giovenazzo, S. E. Hoover, E. Guzman-Novoa, R. W. Currie, P. Wolf Veiga, S. K. French, I. M. Conflitti, M. Pepinelli, D. Borges, E. M. Walsh, C. A. Bishop, A. Zayed, J. Duffe, M. M. Guarna, and L. J. Foster. 2025. Regional patterns and climatic predictors of viruses in honey bee (*Apis mellifera*) colonies over time. *Sci. Rep.* 15: 286.
- McAfee, A., A. Chapman, A. Alcazar Magaña, K.E. Marshall, S.E. Hoover, D.R. Tarpy, and L.J. Foster. “Virus infection of honey bee queens reduces methyl oleate production and destabilizes colony-level social structure.” *Proceedings Of The National Academy of Sciences, U.S.A.* 122.42 (2025): e2518975122.
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- Morfin N, Antúnez K, Aldea-Sánchez P, Guarna MM. Applied bee science and technology transfer. *Frontiers in Bee Science.* 2025 Mar 25; 3:1565929.

New Publications

- Nearman, A., C. L. Crawford, M. M. Guarna, P. Chakrabarti, K. Lee, S. Cook, E. Hill, A. Seshadri, G. Slater, Z. S. Lamas, Y. P. Chen, D. Downey, and J. D. Evans. 2025. Insights from U.S. beekeeper triage surveys following unusually high honey bee colony losses 2024–2025. *Sci. Total Environ.* 1003: 180650.
- Otis, G. W, Robinson WS, Brockmann A, Kastberger G. Editorial: Biology of giant honeybees. *Front Bee Sci.* 2025;3, #1572680.
- Peirson, M., A. Ibrahim, L. P. Ovinge, S. E. Hoover, and S. F. Pernal. 2025. Supersedure, mites, and visible disease in *Apis mellifera* colonies explain differences in productivity and survival. *J. Econ. Entomol.* 118: 1463–1474.
- Quiroga-Arcila, A. M., McCune, F., Fournier, V., & Giovenazzo, P. (2025). Bee-ing a Pollinator: Constraints, Concerns, and Challenges of Lowbush Blueberry. *International Journal of Plant Science.* 25(1): 28-63.
- Rosario CA, Otis GW, R.H. Miller RH, Groover-Landis AA, Stanley ES, Mattila HR (2025). Predatory behavior, nesting habits, and impacts on honey bees (*Apis mellifera*) of an invasive hornet (*Vespa tropica*) on the island of Guam. *PLOS One.* 2025;20(9): #0332986.
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First hive check +5 °C, March 19, 2026 |Photos: Matthew Polinsky

Short News

Dr. Ernesto Guzman was recognized with the CAPA Past President Award as well as the Willie Baumgartner Memorial Award, presented by the Canadian Honey Council (CHC), in recognition of his outstanding contributions to apiculture.

The CAPA presented its Student Merit Awards to outstanding graduate students in apiculture research:

- Ph.D. Merit Award: Prabashi Wickramasinghe, University of Alberta
- M.Sc. Merit Award: Danika Strelaeff, University of Manitoba
- A.S. Atwal Graduate Scholarship: Christine Macpherson of the University of Guelph

The student award recipients had the opportunity to present their work at the BeeTech Canadian National Beekeeping Convention in Calgary, AB:

Wickramasinghe: Molecular basis of IAPV pathogenesis and antiviral immune response in *Apis mellifera*

Strelaeff: DWV vaccine: Using Bacteria to protect honey bees from viruses

Macpherson: Modelling Bee-Associated Microbial Ecosystems in vitro

Congratulations to all the award recipients for their achievements and contributions to advancing apiculture research and education.



Student award recipients (left to right).
Prabashi Wickramasinghe, Danika
Strelaeff, Christine Macpherson



Ernesto Guzman receiving the Willie
Baumgartner Memorial Award,
presented by Pierre Giovenazzo

Editorial Board: Rassol Bahreini, Cameron Menzies, Matthew Polinsky

The Editorial Board warmly invites members of CAPA to submit reports, notes, articles, news, and photos to:
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