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UC DAVIS
E.L. Niño Bee Lab



Photo courtesy of Denise Bienias

2021 in the CAMBP

CAMBP Advisory Board Meeting December 16, 2021



Agenda:

9:00am – Welcome

9:05am – Updates in the CAMBP

2021 Apprentice Assistant, Apprentice, Journey and Master level #s
CAMBP Stats

9:30am – 2021 Overview of the CAMBP

CAMBP accomplishments in 2021

9:40am – Report from CAMBP Membership Committee

OC Bee Team- Karine

Humboldt Hub – Jeannine

UCLA/UCR - Wendy

2022 Classes

9:50am – Feedback, guidance from Advisory Board members

10:00am – Adjourn





Congratulations to our Apprentice Assistants



46 candidates enrolled

17 wrote the online exam

13 certificates awarded



Theory and Practical

Leila Ioannes

Jean-Phillipe Marelli

Dawna Graff-Loeb

Brianna Weston

Lindsay Wilson

Tracy Nelson

Theory

Sasha Nicklisch

Marianne Stella

Robert Zuniga

Ari White

Christine Peterson

Becca Harvey

Elizabeth Holdmann



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Congratulations to our Apprentices



Ellen Walters
Peter Kritscher
Dave Hirz
Jon Zeh
Leann Parker
Thomas Neil
Angela Nowicki
Danielle Bushar
David Krull
William Loyko
Lindsay Carpenter
Michelle Lucadello
Alexander Van
Derrick Bologna
Michael Brandt
Sara Wylder
Brittany Franchi

Inaugural Humboldt Hub

Christine House
Mary Benzinger
Eric Christian
Henry Harrison
Fitz Patrick
Dick LaForge

Inaugural UCLA Hub

Curren Mandon
Isabel Filson
Jeff Olschwang
Jasmine Summers-Evans
Angela Tang
Kylie Joe
Eli Pellot



61 Candidates enrolled
30 Awarded certificates
31 postponed til '22



Congratulations to our Journey Level Beekeepers



Denise Bienias
Andrea Supergan
Olivia Henry
Jim Guilliams
Rick Boone
Bob Silverstein
Peter Kritscher
Jesse Adcock



19 Candidates enrolled
8 awarded certificates
11 postponed til '22



Congratulations to our Master Level Beekeepers



Karine Pouliqen
Catherine Hounshell
John Johnson
John Winzler
Jeannine Kaprielian
Shelly Fox
Sara Cutrignelli
Catherine Madison

14 consultations in 21
6 Master Beekeepers Certified
8 to follow in '22





Congratulations to our Master Level Beekeepers



Capstone Projects include

Development of Hubs – Orange County – Humboldt
Course development and teaching in person and online in the program
Policy and procedure manual
Safety manual and quiz
Managing Tech - Broodminder
Digital Study Guide
AFB sniffer dog training
Raising high quality queens commercially in SLO County
Education and Outreach – 4H, schools and community organizations
Commercial retail business – honey and beekeeping consult and education
Authorship of fantasy novel for grades 4-7 to accompany Apprentice Assistant course
Fundraising/Grant writing/Crowdfunding assistance/Apprentice Assistant digital course
Pollinator Garden Highway project in SF





4:26 minutes of the Beekeeper Apprentice Program
Dec 2021



CAMBP Apprentice Beekeeper Program

START COURSE

DETAILS ▾





CAMBP Stats

Number of members: 345

Number of BEEs in 2021: 2485 hours serving 27,459 people

Number of BEEs since December 2016: 28,912.5 hours serving 136,969 people

Value of CAMBP volunteer hours to the state (@\$25.43/hr value) \$735,244.88

BEEs: Beneficial Education Experiences in the CAMBP are calculated in hours. Each hour a member spends preparing for or engaging in volunteer service, education or outreach in relation to science-based beekeeping and honey bee health is recorded.



CAMBP Accomplishments in 2021

- Crowdfunding raised \$17,238 with 67 donor- funds to develop Apprentice Assistant digital course.

Follow up – livestream hive activity

- Content creation

Webinars

8-Jan	Laren Russert	Research on Q hygiens
8-Mar	Danielle Downey	PAm - Hilo Bees
19-Apr	Christine Kurtz	How to read a bottom board
12-Jul	Ramesh Sigili	Varroa and Honey Bee Nutrition
13-Sep	Frank Rinkevich	Varroa and Amitraz Resitance
25-Oct	Alberta Mirisciotti	Hives For Heroes

Mentoring – protocol in process – thanks to OSU

Online classes (14 OC CAMBP, 7 Davis)

Social media – IG (over 1K followers), Facebook, LinkedIn, Twitter – 30 hours/month
volunteer time

Master capstone projects - everyone learns!

- Website updates – ongoing – more members using portal
- Strategic plan almost done and will present to program council to secure permanent funding for the program



CAMBP Accomplishments in 2021

Apprentice Assistant 1st cohort graduation

Teachable moments:

Need a more robust volunteer mentor base

Cap admissions? \$50.00 is a great price for an introductory certification-not everyone completes course yet they get access to the web portal – admin heavy to manage – 37% completion rate

Satellite Hub expansion – Certification ‘arms’ of the CAMBP – Support, mentoring, in-person practical exams

- Humboldt now established – result of Master Capstone
- UC Riverside in 2022 – pending Dean approval – Barbara and Boris Baer
- The Valley Hive in Chatsworth (Los Angeles) fully online in 2022
- Mount Diablo Beekeepers Association in 2022 (Capstone project)

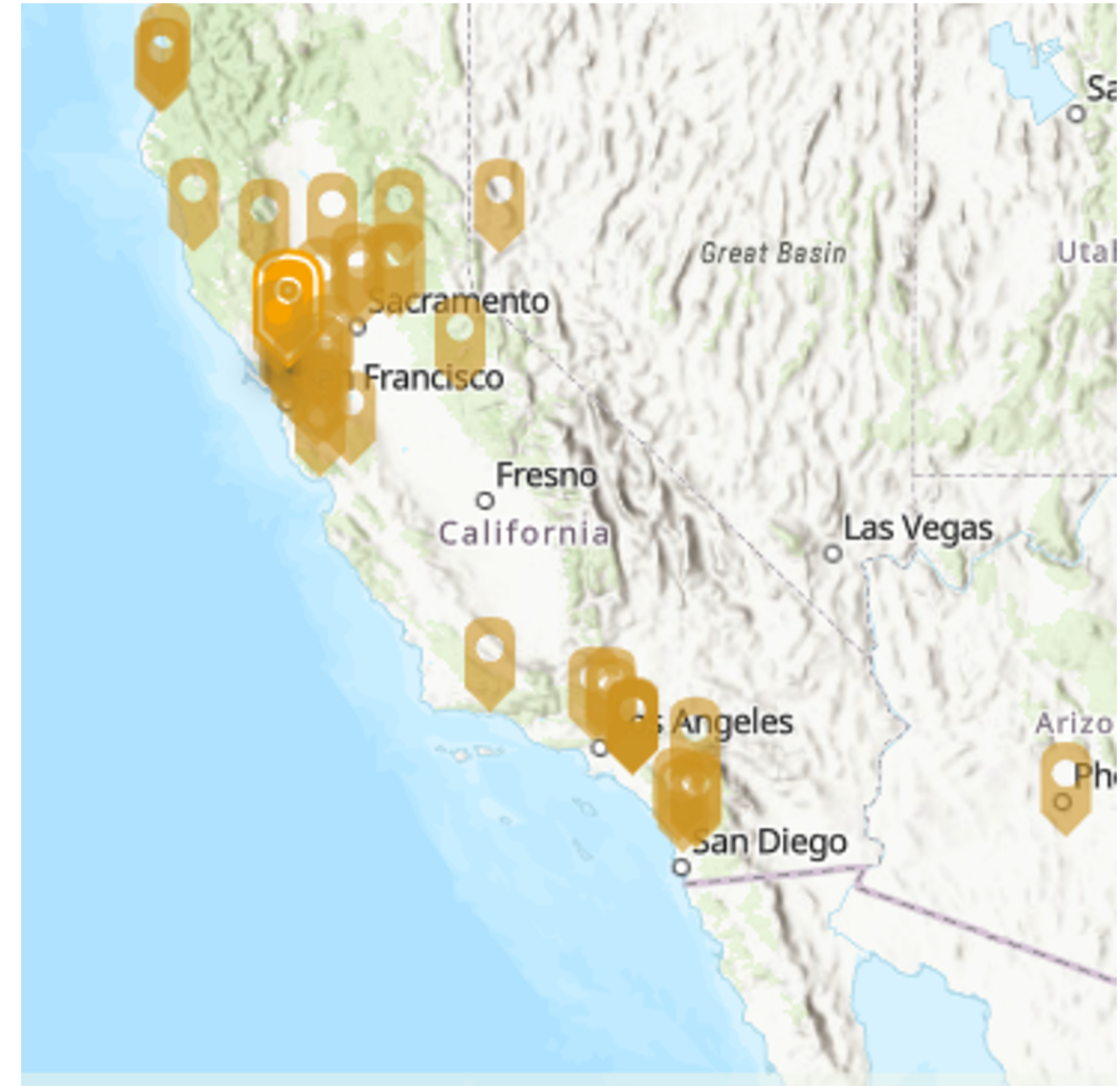
Target #s for each level

- Master Capstones -
- UCLA Hub graduated 2nd cohort and #3 is due to begin Jan 8. Decision to cap at 30 participants. I run separate study halls for this group.



Tools in Process

- Mentoring certificate for AL, JL and ML members for our AA level
- Re-queening Protocol under peer review
- Diagnostic Resources for Honey Bees: Pesticide Poisoning, Pests and Pathogens
- FAQs for consumers and beekeepers on Honey bee rescue and removal
- Apprentice Study Guide –digitization
- Refining Ask a Beekeeper map



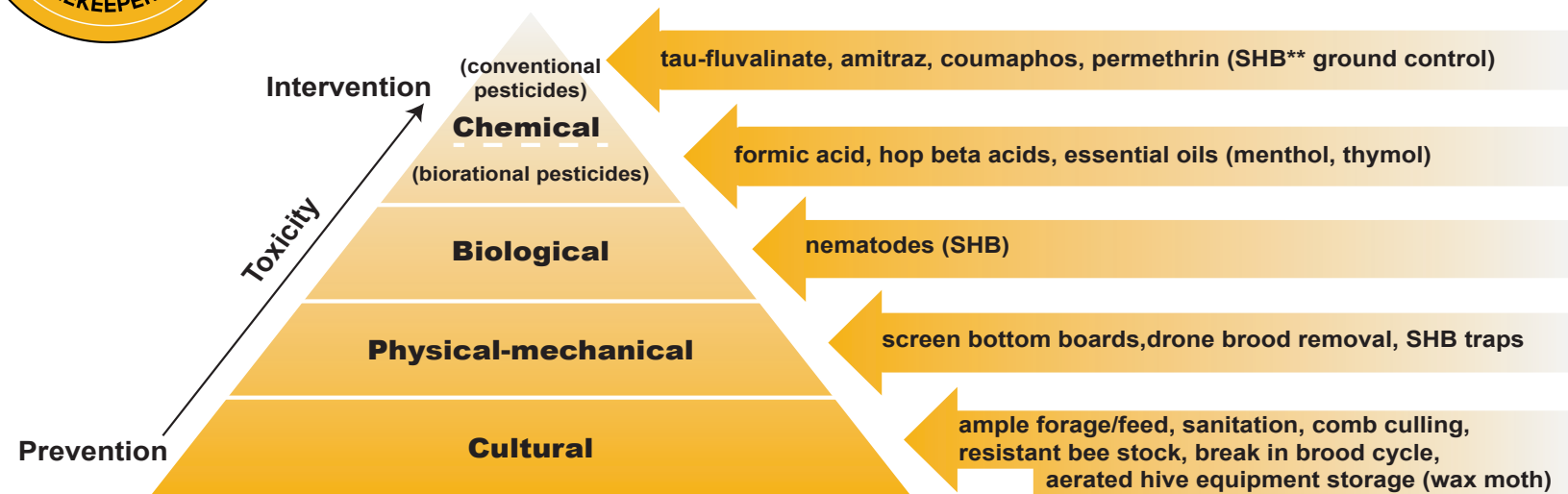


Tools in Process

- AFB decision tree
- PSA on defensive bees – developed with UCSD Dr. James Nieh.
- Apprentice Assistant digital course
- CA-centric beekeeping IPM



The CAMBP California-centric IPM Pyramid of IPM Tactics



* Integrated Pest Management (IPM) is a decision-making process based on understanding the host and pest biology and host-pest interactions. It is an action based on thresholds, uses multiple tactics, is safe, profitable, and environmentally friendly.

**SHB = small hive beetle

Always check local pesticide regulatory bodies to make sure any chemical treatments are legal in your geographical area. For legal options in California please visit UC ANR Publication 8596 <https://anrcatalog.ucanr.edu/pdf/8596.pdf>

Image adapted from base material from Penn State University



CAMBP Class Schedule for 2022

CAMBP OC BEE TEAM					CAMBP DAVIS				
Class	Name	Date	Facilitator		Class	Name	Date	Facilitator	
BK001	Exploring Beekeeping	8-Jan	Boska		AL001	Planning Ahead for your First Hives	12-Feb	MB ? Master Beek	
		22-Jan	Rick				26-Feb	MB	
BK101	Intro to Beekeeping	19-Feb	Karine		AL002	Working your Colonies	12-Mar	MB	
AG-1	Installing HB Packages	5-Mar	Karine		JL003	Queen Rearing Techniques Short Course	30-Apr	ELN	
BK102	The Honey Bee Colony	19-Mar	Karine		AL003	Managing for Varroa	14-May	ELN	
BK103	Honey Bee Products	4-Apr	Karine		AL004	Queen Rearing Basics	11-Jun	LGR	
AG-2	Intro to Mead	7-May	Mark		JL002	Wax Working and Products of the Hive	9-Jul	ELN - NSC	
BK201	Honey Bee Health	21-May	Karine		JL 001	The Science of Honey Tasting	13-Aug	AH	
AG-3	All About Varroa	4-Jun	Karine		JL004	Advanced Anatomy and Physiology	25-Jun	ELN	
BK202	HBs Pesticides, Research and Hope	18-Jun	Karine		WKSP	Pest and Disease ID	10-Sep	ELN	
BK203	Seasonal HB Colony Management in S	24-Sep	Karine		EXAMS				
BK001	Exploring Beekeeping	8-Oct	Boska		AA-AL exam		17-Sep		
AG-4	Tech in the Apiary - Broodminder	OCT TBA	Benoit		JL exam		27-Aug		
AG-5	Gifts from the Hive	19-Nov	Becky						



CAMBP Study Hall Schedule for 2022

CAMBP Bruin Apprentice Beekeeper Training

Please review all class recordings

For additional resources visit the CAMBP website

<https://cambp.ucdavis.edu>

Please attend a minimum of 2 study hall sessions

Practical In-Hive demos with Rey Soto time and dates TBA

Event	Date	Time	Prep	Zoom Link
Study Hall#1	8-Jan	1pm	Read Study Guide sections: Honey Bee Biology and Anatomy of the Hive	https://ucanr.zoom.us/j/92959626067?pwd=RWcva2UzYTnwL2RsUkRWaElacnVydz09
Safety Traing	22-Jan	TBA	IN PERSON	
Study Hall#2	29-Jan	1pm	Read Study Guide sections: Starting and Managing Your Hives and Products of the Hive	https://ucanr.zoom.us/j/92739757214?pwd=WFZOMlZmUXN6endXVnJ3NXE0RVFBdz09
CPR/AED Training	6-Feb	1-5pm	Westwood Village Center, 3rd Floor. (1083 Gayley Avenue, entrance is in the back alley)	
	7-Feb	4-8pm	Rehabilitation Center, 2nd Floor, room 2243 (1000 Veteran Avenue).	
Study Hall#3	12-Feb	1pm	Read Study Guide sections: Common Maladies of the Hive and Basic Honey Bee IPM	https://ucanr.zoom.us/j/96297215784?pwd=ZGIJOWwyZXpYQmxWbVloc2h2bG9Bdz09
Exam Review	19-Feb	1pm	BRING YOUR QUESTIONS to each study hall. This hour we'll review what the exam looks like.	https://ucanr.zoom.us/j/95669269500?pwd=QXFaZGZ5YVc2ckJrJjSOgtKVW1QZz09
Online Exam	Feb 26 - Mar 4			
Practical in-hive Exam	TBA		Practice sessions with Rey Soto TBA	
Consider attending				
Exploring Beekeeping	8-Jan	9am		https://ucanr.zoom.us/meeting/register/tJlsdeChrTMtE9Q2d000_sOY4VX2YUWtQwO
Intro to Beekeeping	19-Feb	9am		https://ucanr.zoom.us/meeting/register/tJErF--urjMuGNVUgctcl6X8LQ7ihDDKis3h



CAMBP Membership Committee Members

This committee represents the membership and provides feedback and guidance on program development, member engagement, mentorship and volunteerism.

Karine Pouliqen
Jeannine Kaprielian
Jason Leung
Phillip Krieg
Mark Carlson
Leah Taylor
Wendy Mather

John Winzler – past member





thank you

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COMMITMENT

Commitment is caring deeply about a person, goal, or belief. Once we determine a direction, we go for it wholeheartedly.



SERVICE

Using our gifts to be of service is the fullest expression of our lives. Each day, we find a multitude of ways to be useful. Whatever we may achieve, the quality of our own life comes from the quality of our contribution. Above all, we serve our loved ones. We notice what others need, discover their wishes, and respond helpfully. We don't wait to be asked. We give our best effort. People who want to be of service can change the world.