

June 2018

# The Natural

# SWARM

## Newsletter of The North Olympic Peninsula Beekeepers Association

The NOPBA promotes the common interest of beekeeping on the Peninsula, strengthens good bee management practices, and encourages good public relations between beekeepers and the general public.

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North Olympic Peninsula Beekeepers' Association

PO Box 3036  
Sequim, Washington 98382  
www.nopba.org

Membership \$10.00 per year

It sure is nice to see a little color returning to our world. After a slowish start with a few headfakes and chilly days thrown in, summer is finally beginning to bump and tumble our way. We hope everyone's bees are making great progress, with the next several weeks being our prime time.

So far, the bees in my own hives are staying home, but a few reports of swarms are coming in which means mostly happy and well populated colonies (possibly overfed) are developing.



The observation window on my new Tanzanian Top Bar Hive that I got from Jerry this year is showing some real progress taking place inside. This was a package installation in April, so by now, these are all new bees. This queen is doing quite well. So called "Natural beekeeping" is what I am experimenting with here, and I only intend to disturb these bees very minimally if at all. The hive is doing very well and if anyone is interested in looking at it, let me know.

**The Forgotten Hives full of wild survivors.** Last month, Jon and Dan came across a couple of hives out west of town that have not been tended to in approximately 10 to 15 years. Jon said the bottom board was completely broken down and rotted out with the boxes absolutely packed with comb.

What was also interesting was a mite sample that showed a little over 2%. Considering that mites will generally overwhelm a colony within two years, evidently these bees have enough hygienic behavior to maintain a stable and productive population.



# Got Bumblebees?



The PNW Bumble Bee Atlas is a collaborative effort between the Washington Department of Fish and Wildlife, the Idaho Department of Fish and Game, The Xerces Society for Invertebrate Conservation, Oregon State University, and the Oregon Department of Agriculture to track and conserve the bumble bees of Oregon, Washington and Idaho.

Be involved. Snap a picture and have your ID verified by the experts who are coordinating this well organized effort.  
<https://www.bumblebeewatch.org>



Yellow faced bumbler (*Bombus vosnesenskii*) stopping by for a hopeful mid-morning snack the other day during a hive inspection. A big gorgeous bumble bee !! (ID submitted and verified)



# Our Next Meeting

June 10, 2018 - Port Angeles Library, Carver Room

**12:00 noon - 12:50p** Beginning Beekeeping Classes continue for the 2018 season.

**1:00p - 1:45p** NOPBA general business meeting. Possible voting to take place on hosting the Randy Oliver event.

**1:45 - 2:00p** 15 minute video on **swarming behavior** utilizing a **beebeard demonstration**.

### Highlights

NOPBA continuing series of Beginning Beekeeper classes features splits and swarm management. Course material includes a printed handout (one-time \$5.00 fee) to accompany Mark's curricula.



## JUNE



sun	mon	tue	wed	thu	fri	sat
-					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30



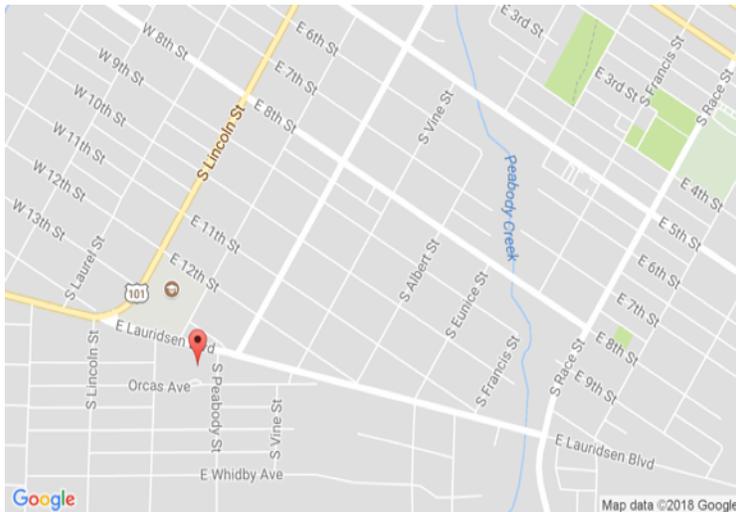
It's swarm season. See my short video after our meeting. WSU honey bee lab demonstrates swarming behavior with beebeards during a workshop last summer.

# Club Buzz-ness

## Meeting Minutes & Announcements

### Coming Up

**June 10, 2018 - Beginning Beekeeping Classes** continue. Throughout the season, this series of one-hour **beginning beekeeping classes will be held starting at noon** prior to our general business meetings which begin at 1:00PM. Classes and meetings are held at the **Port Angeles Library, Carver Room**. 2210 S Peabody, Port Angeles, WA



### Meeting Minutes May 6, 2018

The North Olympic Peninsula Beekeepers' Association met at the Port Angeles Public Library. President Jon Sawyer called the meeting to order at 1:03 pm.

**President's Announcements** Jon informed the group of having contacted both Randy Oliver and Sue Cobey for possible speaking engagements for us. Randy's fee is \$250/day + expenses which is estimated to be in the range of \$1750 - 2000. Sue did not discuss a price, so her fee, if any, is unknown.

**Discussion** was generally positive for sharing the potential event with other local groups. There was also some pushback brought forward as such a large expense would deplete our cash reserve too much. Greg will develop a survey to solicit comments from paid members as a means to determine our overall inclination to invite Randy and how much of our budget we feel comfortable spending for such things. Should we decide to go forward, the issue of a venue for the general public was discussed. Elizabeth offered to look into a venue for approximately 200 people. No conclusions were reached from discussion.

**Vice President's / Club Beekeeper Announcements** Tyrone provided his report by email as he was not available in person today. He reported the 3 club Nucs were installed yesterday (May 5). They were obtained from Old Sol and selected for hygienic behavior, fast build up, temperament, and over-wintering. Tyrone also sent out the mentor/mentee introductory information last week. We have more mentees than mentors this year and need more mentors.

### Meeting Minutes May 6, 2018 - (Cont'd)

**Education report** Mark continues his work with three local schools including 2 pre-schools and one day at the Sequim Middle School.

Mark also represented our association at the "Science Day" celebration on the Hollywood Beach Pier in downtown Port Angeles, Saturday April 28.

**Treasurer's report** Chris was not present, but has reported 5 renewals and 4 new members with May 2018 balances.

Last month(April): \$ 4451.98  
 In: + \$90.00  
 Out: - \$611.35  
 Ending Balance(May): \$ 3930.63



Treasurer's Report - May 2018	
Previous Balance	4451.98
Deposits	
4 new members + 5 Renewals	90.00
Expenses	
Library book replacement	41.35
Bee Nucs (3-survivor stock)	570.00
<b>New Balance</b>	<b>3930.63</b>

**Librarian report** - Angela is out of town and unable to attend today.

**Secretary's Report** - Greg announced an upcoming survey will be hitting mail boxes this week concerning the possible Randy Oliver visit.

Meeting adjourned 1:23pm

Respectfully submitted,  
 Greg Butler - NOPBA Secretary

### Presentation Topic: Q&A with Dr. David Roubik

In our short time together, we had a lot of fun asking Dr. Roubik about bee related topics. Africanized bees, bees and ants, palynology, our local microclimates were a few things discussed. We want to thank Dr. Roubik for dropping in for our short impromptu Q&A session. With a little more planning, we would like to hear more from him.





## Bee Science Stuff

May 14, 2018



### THE POLLINATION OF CULTIVATED PLANTS A COMPENDIUM FOR PRACTITIONERS

Volume One & Volume Two, edited by Dr. David Roubik (2018)

More than twenty years ago, the Food and Agriculture Organization of the United Nations contributed to the growing recognition of the role of pollination in agricultural production, with the publication of "The Pollination of Cultivated Plants in the Tropics". Since that time, the appreciation of pollinators has grown, alongside the realization that we stand to lose them. But our knowledge and understanding of crop pollination, pollinator biology, and best management practices has also expanded over this time.

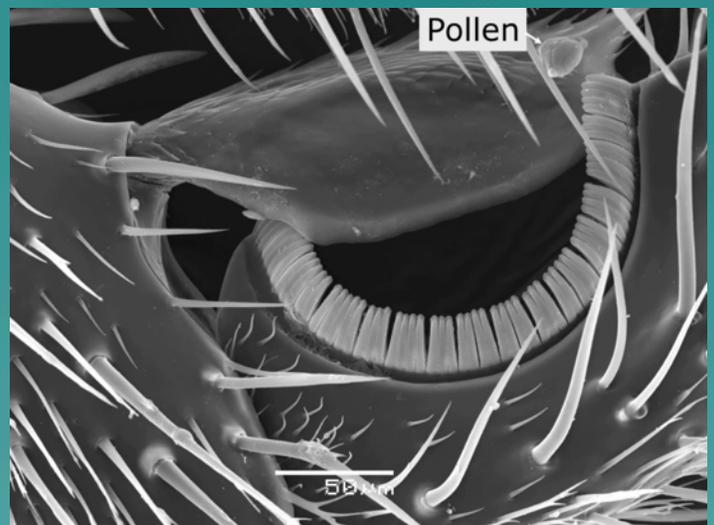
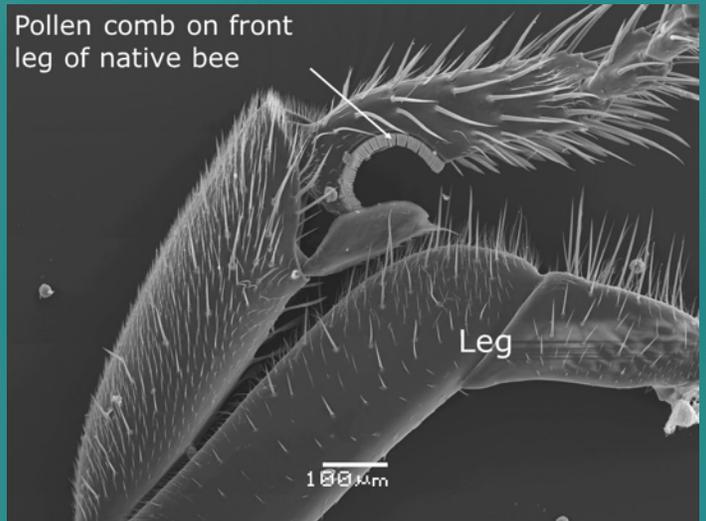
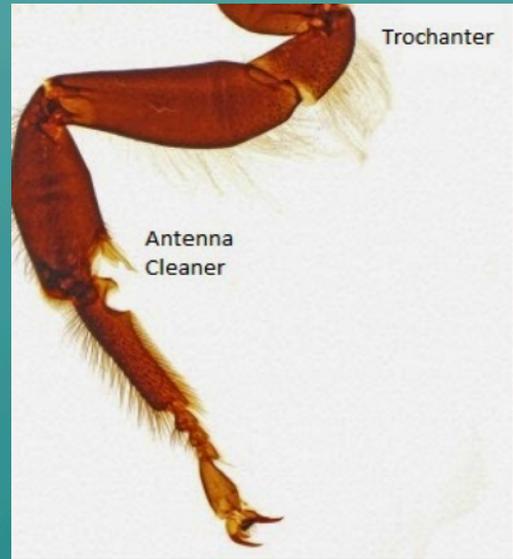
Volume one and volume two of the "compendiums for practitioners", share expert knowledge on all dimensions of crop pollination in both temperate and tropical zones. The focus in the first volume is on applied crop and system-specific pollination. The focus in the second volume is on management, study and research tools and techniques.

#### From the Preface to the Second Edition:

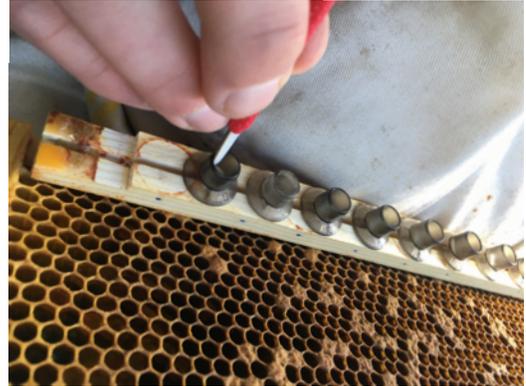
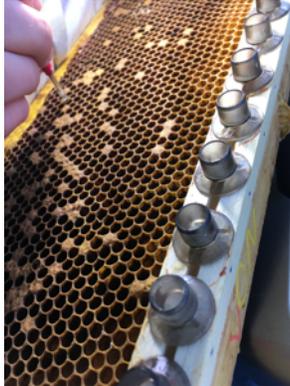
*"Pollinators such as bees have been declining in diversity, if not abundance, ever since people began to replace their habitats with those suited for human use. Humans are largely responsible for this problem and, thus, might also be expected to remedy it. How to achieve this, however, is not yet exactly clear. Furthermore, there is now increasing awareness that an intact ecosystem has values determined by social, political, economic and a host of other human devices, which are often in conflict with ecological processes that form and maintain ecosystems and the services they provide to humanity. The fact that nature is deemed sustainable only when such a decline is avoided is a sure sign of trouble. Nature must not only continue, but advance by a process known as natural selection, to keep pace with the mounting challenges posed both by environmental change and human impact. Without the appropriate habitat and populations it supports, that cannot occur."*

## Honey Bees UpClose

A closer look at the front leg antenna cleaner (pollen comb).



Jon's personal queen production project is well underway. After having successfully grafted selected eggs and inserting them into a queenless cell builder colony, the bees have made some great looking queen cells. The queen cells are removed and inserted into protective cages that are pushed onto frames and put into mating nucs. These developing queens will soon emerge and go on mating flights, to hopefully return and begin laying.



The bees finished making queen cells which have been removed from a "cell builder" colony

Carefully inserted into protective push-in cages

Pushed into made up frames of nurse bees



Frames returned to mating nuc

Queen cell inside a push-in cage

The bees will take it from here...



Bees are only half the story of successful beekeeping. Habitat and forage are absolutely essential. So much excellent work has already been done generating lists of things to plant around our region, there is no need to recreate these lists. Looking back through the NOPBA Newsletter archives, I found this list from April of 2013 put together by *Master Gardener, and past President/Vice President, Cindy Erikson, and republished here:*

**Vice President’s Buzzings: April 2013**

As I planted out lettuces and broccoli in the garden today the bees were feeding on daffodils, muscari, tulips and violas. Since bees add more than a soothing buzzing sound, it's worth putting some thought into making your landscape inviting for them. As you are well aware, bees are basically looking for 2 things when they visit your plants: 1. Nectar - nectar is loaded with sugars and its a bees main source of energy; and, 2. Pollen - pollen provides the balanced diet of proteins and fats.

When considering what to plant in your landscape, or evaluating existing plants, it is important to note that many popular flower varieties are hybridized for features that are valued by gardeners, like disease resistance, flower size or color and bigger, longer blooms. Unfortunately much hybridization has reduced the production of nectar and pollen and sometimes leaves the resulting plant completely sterile and useless to bees and other pollinators. Another factor is that the amount of nectar secreted is dependent of climate conditions such as temperature, humidity and moisture in the soil.

Listed below are some plants I have observed honeybees feeding on during the course of a year that are good sources of nectar or pollen for bees. Both the common and Latin names of the plant genus are given. Native plants should be your first choice as they grow well in the Pacific Northwest and also support our native pollinators. This list is not exhaustive; there are many other plants good for bees particularly older, heirloom varieties of annuals, perennials and herbs that are good sources of nectar or pollen. Together with native plants, these will make your landscape attractive to both pollinators and people. The Xerces Society is another good resource for what to plant to support your bee colonies.

**Plants That Attract Honey Bees**



Botanical name	common name	color	height	flower season	sun	soil
<i>Trees &amp; shrubs</i>						
Acer	maple	white	<30'	Mar-June	sun/partial shade	moist/well drained
Alnus rubra	red alder	reddish catkins	100'	Early Spring	sun/partial shade	moist/dry
Amelanchier	serviceberry	white	1-5'	Apr-July	sun/partial shade	moist/well drained
Arbutus menziesii	madrone	white	6-30'	Apr-May	sun/partial shade	dry
Berberis	Oregon grape	yellow	.5-1.5'	Mar-June	sun to shade	dry, well drained
Blueberry	blueberry	white, pink	3-6'	April-June	full sun	moist/well drained
Calluna ssp.	heather	white, purple	1'	Nov-March	sun/partial shade	moist/well drained
Caryopteris	bluebeard	blue	2'	July-frost	full sun	moderate water
Ceanothus	wild lilac	blue	2-12'	May-June	full sun	little/no water
Cornus nuttallii	Pacific dogwood	white	1-30'	Apr-June	shade	moist/well drained
Cotoneaster	cotoneaster	white	1-4'	spring-summer	sun/partial shade	moist/well drained
Erica ssp	heath	red, purple	1'	Nov-March	sun/partial shade	moist/well drained



Ribes	flowering currant	red, yellow	3-6'	Mar-May	sun/partial shade	regular water
Rubus	raspberry/blackberry	white	3-8'	April-May	full sun	regular water
Sambucus	elderberry	white/cream	1-6'	May-July	sun/partial shade	moist to dry
Symphoricarpos	snowberry	pink	.5-2'	May-August	sun to shade	moist/well drained
Vaccinium	huckleberry	pink	.1-3'	Apr-August	sun/partial shade	moist to dry

#### Perennial flowers & herbs

Achillea millefolium	yarrow	white, yellow	.2-1'	Apr- Oct	sun/partial shade	dry
Agastache foeniculum	anise hyssop	lilac blue	3'	June-Sept	sun/partial shade	moderate water
Aquilegia formosa	Cascade columbine	red	.1-1'	May-Aug	partial shade/shade	moist
Aster	daisy	blue,purple,white	.1-2'	July-Sept	sun/partial shade	moist to dry
Coreopsis	coreopsis	yellow,orange,red	1-3'	May-Sept	full sun	moist to dry
Cyclamen hederifolia	cyclamen	pink, white	4-6"	Aug-Nov	sun/partial shade	regular water
Delphinium	larkspur	white, blue	.1-1'	Apr-July	sun/partial shade	dry
Dianthus	pinks	white,pink,red	6-12"	Apr-July	light shade	regular water
Digitalis	foxglove	purple,yellow,white	2-8'	May-Oct	sun/partial shade	regular water
Echinacea purpurea	purple coneflower	purple	2-3'	Jun-Oct.	sun	drought tolerant
Epilobium augustifolium	fireweed	purple	3-5'	July-Aug	sun/partial shade	well drained
Erigeron	fleabane	white,blue,purple	.1-.7'	Jun-Aug	sun/partial shade	moist to dry
Eriogonum	buckwheat	white to yellow	.1-.5'	May-Aug	sun	dry, well drained
Erythronium	fawn lily	white, pink, yellow	.1-.3'	Mar-Aug	sun to shade	well drained

#### Perennial flowers/herbs ...continued

Botanical name	common name	color	height	flower season	sun	soil
Eschscholzia calif.	California poppy	yellow to orange	.1-.5'	May-Sept	sun	dry, well drained
Eupatorium	Joe Pye Weed	white,lavender	2-6'	June-frost	sun	moderate water
Helleborus	hellebores	white to purple	2-3'	Feb-May	shade/partial shade	well drained
Hydrophyllum	waterleaf	white,blue,purple	.2-.8'	Apr-July	sun to shade	moist
Hypericum	St. John's Wart	cream,yellow,gold	1-3'	June-Sept	partial shade	regular water
Iris	iris	white,yellow, purple	.1-1'	Apr-July	sun/partial shade	well drained
Lavender	lavender	white to purple	1-4'	July-August	sun	moderate water
Lillium	lily	white,pink,orange	.2-1'	Jun-July	sun/partial shade	moist
Lupinus	lupine	blue,purple	.3-3'	Apr-Aug	sun/partial shade	dry to moist
Mentha*	mint	white,pink,purple	.2-.8	July-Sept	sun/partial shade	moist
Monarda	bee balm	pink to deep red	2-4'	July-September	lite shade	regular water
Myosotis	forget-me-not	pale blue	6-12"	May-June	partial shade/shade	regular water
Penstemon	penstemon	white, purple	.1-.6'	May-Aug	sun/partial shade	dry, well drained
Phacelia tanacetifolia	scorpion weed	white	1-2'	May-Aug	sun	dry, well drained
Phlox	phlox	white,pink,blue	1-4'	May-June	sun/partial shade	regular water
Rosmarinus oifficinalis	rosemary	blue/lavender	1-6'	May-Nov	sun	regular water
Sedum	stonecrop	white, pink,yellow	.1-.3'	May-Aug	sun	dry, well drained
Solidago	goldenrod	yellow	.3-2'	July-Oct	sun/partial shade	dry, well drained
Taraxacum officinale	dandelion	yellow	12"	Feb-frost	sun	drought tolerant
Thymus	thyme	white,lilac,rose	2-12"	May-July	sun/partial shade	moderate water
Trifolium repens	white clover	white	4"	May-October	sun/partial shade	regular water
Trillium	trillium	white to purple	.1-.3'	Mar-June	shade/partial shade	moist

#### Annual flowers

Borago officinalis**	borage	blue	1-1.5'	Jun-Sept	sun	well drained
Centurea cyanus	bachelor' button	blue	1-3'	Jun-Aug	sun	moist/well drained
Cosmos	cosmos	varied	1.5-7'	May-Sept	full sun	variety of soils
Mellissa officinalis	lemon balm	white	2'	Jun-Sept	sun/partial shade	moderate water
Monarda citriodora	lemon mint	lavender	3'	Jun-Aug	sun	loose,well drained
Nepeta cataria	catnip	white, purple	3'	July-Sept	sun/partial shade	loose,well drained
Coriandrum sativum	coriander/cilantro	white	1-1.5'	Jun-Sept	sun	well drained

\*spreads rapidly;

\*\*readily re-seeds itself

# The Library Table

## Book & Movie Reviews

The NOPBA Library is managed and maintained by our Librarian Trustee Angela Regan

An enormous assortment of bee related material is available each month at the meetings for NOPBA members to borrow and share, take home and return. Since this is community property, we have to stress the "return" part. The library also accepts donations of books. (The older the better)

### Bee Book Review

Mark L. Winston - *Listening to Bees*



It's no secret that I am fan of Mark Winston. In this podcast episode, listen in to learn about his work on bees and their communication, how his publications have impacted beekeepers everywhere, and the upcoming release of his newest book.

*"If I was going to hang out with beekeepers, I needed to learn how to communicate with them effectively, and I learned very quickly that beekeepers are way smarter than most scientists give them credit for."* - Mark L. Winston

<http://blogs.oregonstate.edu/pollinationpodcast/2018/03/05/mark-l-winston/>

Have a book or movie to review? Let us know!



# Hive Tools

Resources, Links, Subscriptions, News, Blogs, and More

## June Featured Highlight

*With swarm season upon us, an understanding of how swarms choose their nest sites helps us design better bait hives - from Tom Seeley* <http://bit.ly/bait-hives>

## Regional Resources

**Washington State Beekeepers** <https://wasba.org>

**Oregon State Beekeepers** <https://orsba.org>

**British Columbia** <http://bchoneyproducers.ca>

**Montana** <http://www.bigskybeekeepers.com/resources>

## IPM/Honey Bee Health/Projects/Research

Tools for Varroa Mangement, Honey Bee Health Coalition [https://honeybeehealthcoalition.org/wp-content/uploads/2015/08/HBHC-Guide\\_Varroa-Interactive-PDF.pdf](https://honeybeehealthcoalition.org/wp-content/uploads/2015/08/HBHC-Guide_Varroa-Interactive-PDF.pdf)

Bee Informed Partnership, collaborative efforts from across the US focusing on healthier bees <https://beeinformed.org>

USDA Honey Bee Lab, Baton Rouge, Robert Danka <https://www.ars.usda.gov/southeast-area/baton-rouge-la/honeybeelab/>

Washington State University Bee Lab <http://bees.wsu.edu>

Oregon State University Bee Lab <http://honeybeelab.oregonstate.edu>

Montana State University <http://www.montana.edu/pollinators/>

Project Apis m. <https://www.projectapism.org/about-project-apis-m.html>

University of Minnesota Bee Lab <https://www.beelab.umn.edu>

UC Davis [http://elninobeelab.ucdavis.edu/apiculture\\_newsletter.html](http://elninobeelab.ucdavis.edu/apiculture_newsletter.html)

FAO Practical Guide to Diseases and Pests <http://www.fao.org/3/a-a0849e.pdf>

**Honey Recipes** <https://www.honey.com/recipes>

## Bee related Blog Subscriptions

Kathy Keatley Garvey <http://ucanredu/blogs/bug squad/>

Dr. Mark Winston <http://winstonhive.com>

Randy Oliver <http://scientificbeekeeping.com>

Ron Miksha <https://badbeekeepingblog.com>



# Membership Survey Results

The results of our membership survey regarding possibly hosting Randy Oliver and questions involving general educational expenses are in. The survey was sent out to 2018 paid members on May 10, 2018. If you have paid your dues and we missed you, please let us know.



**Purpose of Survey:**

1. Obtain level of interest regarding Randy Oliver as a guest speaker
2. Determine general opinion of how NOPBA education funds are allocated and utilized
3. How involved would members want to be organizing a public event ?

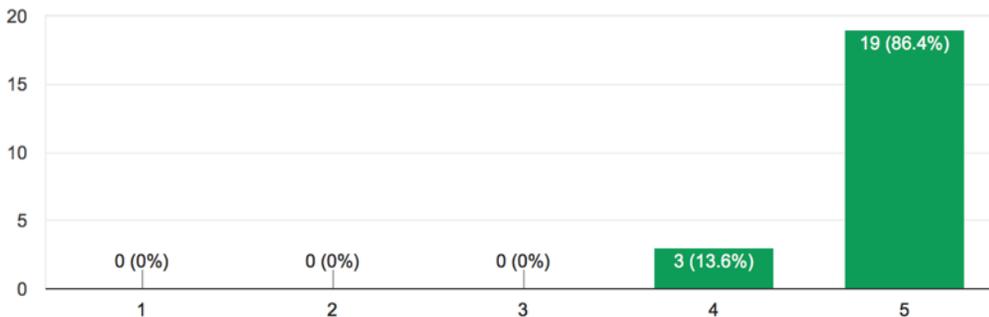
**RESULTS:**

**Are you interested in having Randy Oliver come speak to our group ?**

Overall, 24 members responded. Of those, 22 said yes (92%), and 2 said not interested (8%).

**How important are beekeeping educational activities for our association ?**

22 responses

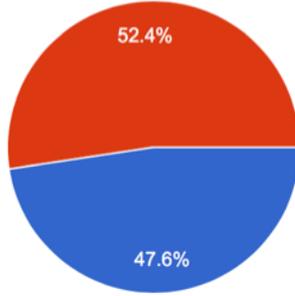


**What percentage of your \$10.00 annual membership fee would you like to see spent on beekeeping education ?**



## Should a maximum cap be set for the NOPBA year end reserve account balance ?

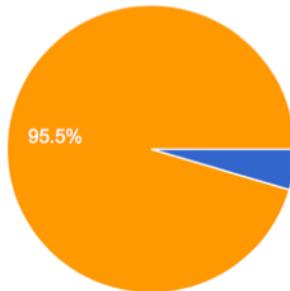
21 responses



- No. Carry the account balance over each year without any limit
- Yes. Target a year end cap on account balance to encourage educational investments during the year

## Inviting well known speakers to Port Angeles can be expensive. Should NOPBA recoup the expense for this event ?

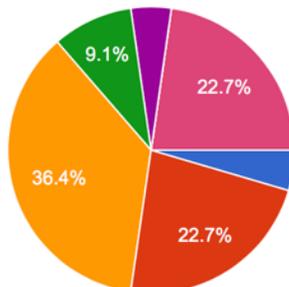
22 responses



- No.
- Yes. We need to recover this expense in order to maintain the current level of reserve.
- Yes. We should recover this expense, but the amount of our reserve can be adjusted lower if necessary

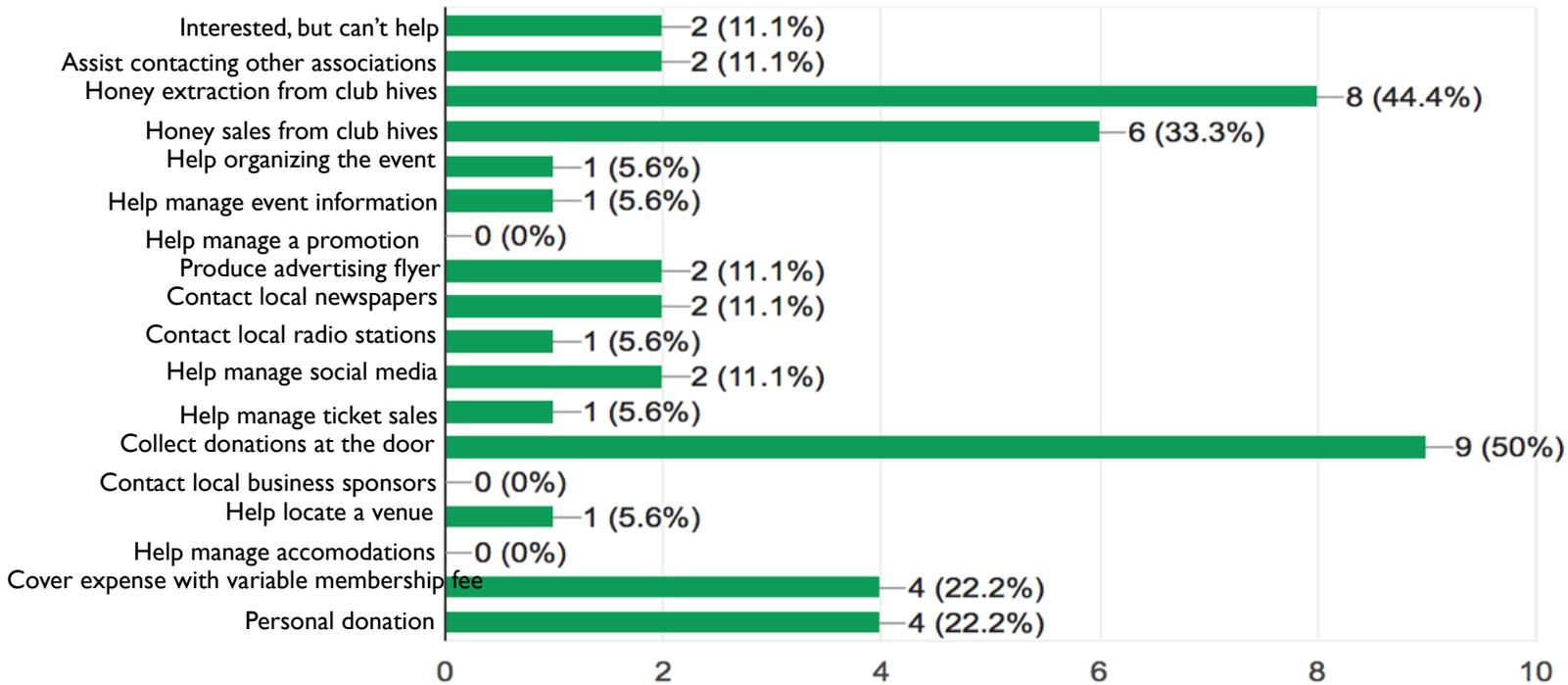
## In general, should NOPBA set a minimum annual reserve balance ?

22 responses



- No. We need funds available to cover expenses, but targeting a minimum limit is unnecessary
- Yes. We should maintain funds in the range of \$500 - \$1000
- Yes. Range \$1000 - \$2000
- Yes. Range \$2000 - \$3000
- Yes. Range \$3000 - \$4000
- Yes. Range \$4000 - \$5000
- Not sure, no opinion

**Event Participation:** Managing a large public event will require tons of jobs. In an effort to measure how much help might be available, respondents were asked what they might like to volunteer for. If the event is approved by popular vote, respondents who optionally provided email addresses will be contacted.



**Summary:**

The executive board of NOPBA wants to **THANK YOU** for taking time to participate.

- \* Paid members responding: approximately 25%. Of those respondents, the majority expressed interest in hosting Randy Oliver.
- \* Beekeeping education was ranked very high and respondents were comfortable allocating between 50% and 75% of their annual membership fee for education related activities.
- \* Results were mixed and evenly split for and against setting a maximum limit for our account balance.
- \* A large majority of the respondents want to recover the expense for hosting Randy Oliver; but are comfortable adjusting our current reserve balance to lower amount if necessary.
- \* Results were mixed for maintaining a lower account reserve balance, but a small majority of the respondents were okay lowering the balance from it's present level.
- \* Respondents were generally willing to help out with the activities required to host a large public event.

## North Olympic Peninsula Beekeepers Association



# Beginning Beekeeping Class

**SUNDAY, JUNE 10, 2018  
12:00 NOON**

**PORT ANGELES LIBRARY, CARVER ROOM**



**Beginning Beekeeping Classes** continue for the new season. The one-hour beginning beekeeping classes follow the season starting at noon prior to our general business meetings which begin at 1:00PM. The classes and meetings are held the second Sunday of the month unless otherwise noted, with no meeting in December. Classes and meetings are held at the Port Angeles Library, Carver Room.

2210 S Peabody, Port Angeles, WA

[info@nopba.org](mailto:info@nopba.org) Membership \$10.00 per year

# The Exchange



Buy - Sell - Trade - Want - Need - Giveaway

Big Blank S P A C E... is available. It would be nice if people wanted to buy, sell, trade, want, need, giveaway, whatever.... ?



~ **Advertisement Space** is obviously available ~

Please call, email, or catch me at a monthly meeting

THANKS!

Greg Butler  
[info@nopba.com](mailto:info@nopba.com)

360 460-5635



## Local Websites



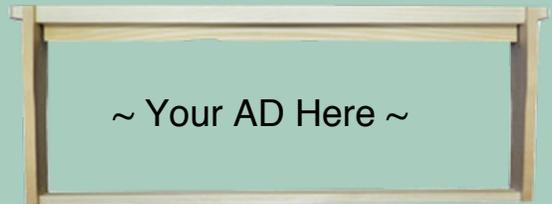
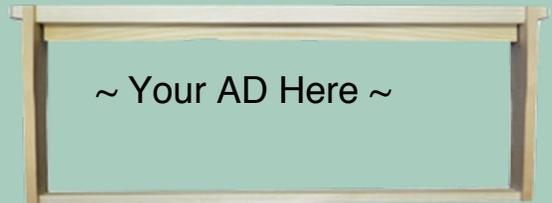
-  **Olympic Wilderness Apiary** <http://wildernessbees.com>
-  **Sequim Bee Farm** <http://sequimbeefarm.com>
-  **Northwest Bee Supply** <http://www.northwestbeesupply.com>
-  **Your Website Here**

Unassembled Medium 10 Frame Hive Body - \$16  
 Unassembled Medium Frame - \$1.60  
 Black Wax Coated Acorn Foundation - \$1.80

Combo Set:  
 1 Medium 10 Frame Hive Body  
 10 Medium Frames  
 10 Black Acorn Foundations

Painted & Assembled - \$69  
 Assembled - \$59  
 Unassembled - \$39

Jon Sawyer  
 Dry Creek Apiary  
[jon@cunninglogic.com](mailto:jon@cunninglogic.com)  
 360-640-3822





North Olympic Peninsula Beekeepers' Association

New Members are welcome at any time.

Annual Membership is still \$10.00

New Member     Renewal     Donation     Date \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

Area(s) of Beekeeping Interest \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Office Use Only:  
Recvd Amt \_\_\_\_\_ Date \_\_\_\_\_ Initials \_\_\_\_\_

NOTES:

**Instructions:**

1. Fill out form
2. Enclose check for Annual Dues of \$10.00
3. Mail to:

NOPBA  
PO Box 3036  
Sequim, WA 98382

**THANK YOU FOR YOUR SUPPORT**



8/16/84



Harvesting the work of ketchup bees