



The "Northwest Corner" Beekeepers' Conference

Presented by the Oregon State Beekeepers Association with the Idaho State Beekeepers Association, Washington State Beekeepers, and the British Columbia Beekeepers Association

Best Western Hood River Inn Hood River, Oregon
October 30, 31, & November 1, 1997

This year's conference will be held in conjunction with beekeeping groups from all over the Northwest, including Canada. We have an exciting program designed to offer quality information to beekeepers of all interest levels. The program features internationally acclaimed speakers from around the United States and Canada, including Fred Rossman from both the National Honey Board and Rossman Apiary in Moultrie GA, Gloria Di Grandis-Hoffman from the Carl Hayden Bee Lab at Tucson AZ, Dr. Mark Winston from Simon Fraser University at Burnaby BC, Drs. Michael Burgett, Lynn Royce, and Ms Jenny Gavilenz all from our own Oregon State University Bee Lab in Corvallis OR, Dr. Keith Delaplane from the University of Georgia in Athens, GA, and Dr. Steve Shephard of the Washington State University Bee Program in Pullman WA.

Fill out the enclosed pre-registration form and send it to Bart Snyder TODAY. Avoid the line at registration and make your room reservations. We are expecting a sellout and to avoid not being able to get in, fill out and send your registration and get it to Bart **BEFORE OCTOBER 13th**. The Best Western Hood River Inn has special rates for beekeepers attending the Conference. Call them direct at 800-828-7873.

AGENDA

Thursday evening, October 30, 1997

7:00 - 7:30 PM Welcoming Reception -
Mead, Wine, Honey Beer & Cheese tasting social -
meet old friend and make new ones

7:00 PM Registration - Don't forget to
buy luncheon & banquet tickets!

Friday morning sessions, October 31, 1997

7:00 - 8:30 AM Registration - expect a long
line so pre-registered if possible

8:30 AM Welcome from the OSBA -
George Hansen, President OSBA, Foothills Honey,
Colton, OR

George will set the keynote for the
Conference and introduce the program and any
change or additions.

8:50 - 9:50 AM *Evolution of a "Full
Service" Apiary* - Fred Rossman, Rossman
Apiary, Moultrie, GA

Fred will talk on what it means to be a full
service bee business and how Rossman Apiaries
achieved national recognition.

9:50 - 10:20 AM Coffee & Refreshment
Break

10:20 - 11:00 AM *Bee Economics
Software* - Dr. Gloria Di Grandis-Hoffman, Carl
Hayden Bee Lab, Tucson, AZ

Gloria has developed an exciting software
program for beekeepers and she will tell us how it
works and how we all can benefit from computers
in our businesses.

11:00 - 11:45 AM *"Of Mites and Bees"* -
Dr. Mark Winston, Simon Fraser University,
Burnaby BC, CANADA

Mites are still our biggest single problem in
profitable bee management and health. Dr. Winston
will fill us in on the latest research and techniques
to treat for mites.

12:00 AM - 1:00 PM Lunch

Cont. on Page 7

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To join the OSBA, complete the membership application in this issue and send with payment to:

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Business ads, per issue:

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Full Page	100.00

Copy, art, and payment must be submitted by the 15th of the month prior to publication. Contact the editor for any special requirements and mechanical information.

Classified ads, 30 words, per issue:

OSBA members	\$ 2.00
Non-members	3.00

Basics in Northwest Beekeeping

by Ron Bennett

As we shift into our Fall/Winter program, our bees are in the process of preparing to cluster up (they form a tight ball of bees in the central area of the hive to conserve warmth) for the Winter. There are still yellowjackets about and on warmer days, bees from other hives may try to rob, so continue precautions against robbing - reduce the entrance opening of the hive.

One good way to help your hives is to tilt the hive slightly forward by placing a board under the back edge of the hive. This points the entrance downward and helps to keep water from gathering on the bottom board of the hive. Another point to keep in mind is that your top may not be water tight and placing a cover over the top (a sheet of ply larger than the top, of any good stiff water-tight material will do) and putting a weight (a brick or rock) to keep it from blowing off will help keep your bees warm and dry.

And, in keeping them dry, they tend to generate a lot of water vapor in the hive in winter from normal aspiration. Cracking the top open and putting a few toothpick sized sticks will give the hive enough ventilation to keep it from turning into a dank damp environment.

Remember to feed all light colonies with a saturated sugar syrup (190 parts sucrose, 100 parts water), but don't feed poor grades of honey.

Fumigate your stored comb against wax moths with mothballs (DO NOT MIX THE TWO DIFFERENT KINDS OF ACTIVE INGREDIENT IN MOTH BALL FORMULATIONS), or expose the comb to sunlight or freeze to kill moth larvae. Your bees invested a tremendous amount of energy and resources in creating that comb and you should value and protect this asset carefully. Also protect your stored comb from mice by whatever method you are comfortable with. Mice can destroy boxes of comb in short order.

Treat with Terramycin for Foulbrood, either as a program of sprinkling a mixture of one 6.4oz pack of terramycin to two pounds of POWDERED sugar (not granulated) and spreading a hive tool scoopful around the edges of the top bars of the brood frames once a week for three weeks (DO NOT SPRINKLE ANY ON THE BEES OR IN THE BROOD AREA), or as terramycin/vegetable shortening/granulated sugar patties placed on the top bars.



An Open Letter to Beekeepers and Cranberry Growers

by David Curtis and Ron Bennett

The following letter is intended to help both beekeepers and cranberry growers understand the situation and shortage of beekeepers willing to work cranberries in recent years. The hope is to find a common ground to discuss these problems and find solutions. After all, beekeepers providing pollination services are in the business of increasing grower's yields and therefore their bottom line profits.

CRANBERRY POLLINATION

ISSUES RELATIVE TO THE HONEY BEE SHORTAGE

The following is a compiling of many of the reasons the cranberry growers in the Bandon area are finding it more and more difficult to find beekeepers. Through this analysis it is hoped that the information will be suitable for the growers to understand and be able to work towards remending the situations that are within their means to make the pollination more cost effective and enticing for the beekeepers. Please note that all figures have been worked from a minimum stand point. As with any farmer, the beekeeping industry is also weather oriented. Due to this, each of the graphs, and their numbers represented, are subject to changes in any given year. This information is being passed to all the growers to let them know that the Bandon area is considered a hardship area for beekeepers.

1. Cost Effectiveness for the Beekeeper.

a. 1997 average pollination on the West Coast @\$36.00/hive. The average time frame for the pollination @160 days.

In the past, before the hybrid variety of cranberry plants, the pollination time was around three weeks. Because of the new plants mixed with all the others this time has more than doubled, however the pollination prices have not risen to account for the longer pollination cycle. In the northern mid-west and East coast the pollination times have remained the same, but the pollination cost is between 60 and 75 dollars per hive.

b. With the Eastern pollination, it is possible to produce a honey crop in addition to the pollination revenue. Although at the outset, in the Bandon area, honey is also collected by the hives, with the long duration of the pollination set, it is not uncommon that the honey collected is eaten up by the bees and the bees in certain areas have to be fed, adding again

to the bee keepers expense.

c. Adverse weather conditions play a major role in hive degradation. Resulting in lost revenue, and added labor, trying to build the hives back up after the pollination to make honey and insure a minimum loss to be able to operate the following year. Hives in the cranberry pollination need additional surveillance to reduce the excessive swarming known to occur in the Bandon area. This alone, experienced by many, accounts for between 20%-30% loss of hives. Although the real reason has yet to be found, some think the intense spring bloom is part of the cause. The bees start to swarm for no normal reason, literally swarming completely out of the hive. Those that do manage to requeen often have an inferior new queen because bad weather and high winds do not allow the virgin queens to be properly mated. So it is prudent for all hives that were used in the pollination to be requeened. Again either an actual expense from \$8-10 per queen or the man hours required to make ones own queens at a remote location. Some beekeepers, in addition have noted failing, or a dying out of queens in the Fall with the hives used in the cranberries. No scientific reason has yet been found, but hives used for cranberry pollination do not produce a honey crop after removal from the cranberries and require extra attention in Fall just to survive. This is an additional reason why most try to requeen their hives to prevent the loss of the hive at a time of the year when it can't be replaced.

2. Logistics and Time elements detrimental to the Cranberry Pollination.

Please note that in the 1997 year, the unusually weather conditions made it apparent to all the beekeepers that it is very difficult to get the bees to the growers in a timely fashion. This is another reason why all the major beekeepers are cutting back on the number of pollinations they are doing in cranberries and avoiding the problems and actual dangers of excessive amounts of time with no sleep.

a. Bandon area has approximately 2,500-3,000 acres of Cranberries, with *Cont. on Page 4*

very few growers exceeding 30-40 acres each. Result, a large number of individuals requiring small amounts of bees. The amount of acreage justifies the need for commercial beekeepers, since there aren't enough small beekeepers available. However because there are so many small growers, the amount of time needed to deliver makes it difficult, if not impossible, under current conditions.

b. Poor road conditions and difficult access to the bogs add greatly to the amount of time necessary to deliver the bees. In addition, because of many of the rough roads, great amounts of bees are lost during the delivery process out to the growers, resulting in the hives having a lessened worker pollinating force for several days.

c. Growers lack planning for placements for the hives. In order to ensure enough bees are available commercial beekeepers have to be used. However due to the volume of bees they work with they are required to work with loaders since the bees are on pallets. Few growers have accounted for this with the areas where they want their bees. Due to this, huge amounts of time is lost preventing the commercial beekeeper from timely deliveries. Planning with a pollinating professional (beekeeper), will greatly enhance the ability to ensure having bees.

Even small beekeepers have problems delivering bees to the bogs. The roads may be good for the grower in late Spring and Summer, but beekeepers are trying to negotiate these bog roads at night, with one or two ton trucks fully loaded with a heavy and high-center-of-gravity load. This makes for a slow and labor-intensive delivery of the bees even for non-palletized operators.

3. Alternate sources of revenue competing with Cranberry pollination per hive.

a. Cranberries - May, June, July	
gross per hive -	\$ 37.00
Re-queen -	7.00

adjusted gross -	\$ 30.00
b. Other pollinations available to beekeepers.	
May - Meadowfoam	\$ 35.00
June, July - Caneberries, Strawberries,	
Pumpkins, assorted seeds	\$ 35-15.00
minimum gross avail.	\$ 50.00
no hive loss or re-queen -	0
adjusted gross	\$ 50.00

(note - most of these traditional mid-season crops also produce a honey crop for the beekeeper)

c. Honey Crop

May 1 super = @ 35 lbs x \$.75-.85 per	
lb. wholesale -	\$ 26.25
June 1 super	\$ 26.25
July	
gross honey income	\$ 52.50
no trucking or re-queen -	0
adjusted gross	\$ 52.50

d. Splits, Nucs, or hive production

(\$40) (\$35) (\$90)	
May 1 split or nuc	\$ 35.00
June 1 split or nuc	\$ 35.00
gross -	\$ 70.00
no trucking or re-queen -	0
adjusted gross	\$ 70.00

4. Profit/Loss Analysis for Cranberry Pollination

a. Actual Rental income from pollination of cranberries - 100 hives x \$37.00	\$3700.00
25 hives represents average percentage loss resulting directly from cranberry pollination x \$40.00 per hive for equal amount of large package of bees -	\$1000.00
25 x \$5.00 av. cost per hive for combined trucking and living expense -	\$ 125.00
75 remaining hives x \$ 7.00 Re-queening	\$ 600.00



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	\$3700.00	Gross income
less	- 1000.00	hive loss
less	- 125.00	trans/living costs
less	- 600.00	re-queening
	\$1975.00	Adjusted gross
		= \$19.75/hive

b. Lost revenue for current remaining season
 25 (minimum) supers of honey not made x
 \$26.25 \$ 625.25

	\$1975.00	(from a. above)
	- 656.25	
	\$1348.75	adjusted gross
		= \$13.49/hive

c. Reverse Equation by not pollinating Cranberries and what the long term revenue loss is from the 25 hives. Hives can be split each year in addition to a split being sold for revenue. (These figure are exclusive of the capital costs for the hives and represent only the revenue side.)

Years activity per hive				
	Almonds	Split	Honey	Total
Year 1	25 hives \$37	\$40	\$26.25	\$2581.25
	2 50 hives			\$5162.00
	3 100 hives			10325.00
	4 200 hives			20650.00

note: the 25 hives revenue alone accounts for 70% of what was made with 100 in the cranberries.

Summary - What can we do to help growers and beekeepers?

What we have not included in this analysis is the ongoing overhead of labor and capital costs. But even without these figures included (since the beekeeper would incur these costs regardless of the crop pollinated) it is clear that pollinating cranberries for less than about \$45 per hive is not cost-effective for the beekeeper, even if the beekeeper is

relatively local to the Bandon area. If the beekeeper is hauling in from California, the Willamette Valley, or Washington, the transportation costs increase dramatically, and the costs of servicing the hives (re-queening and feeding) increase in both travel costs and time allotments.

This above information explains why there have been a constant turnover in beekeepers serving the Bandon area. We beekeepers may be a slow bunch, but long and expensive visits to the hives, 25-30% loss and ending up with weak hives in poor conditioned is a real wake-up call. Clearly renting a hive for \$24 and hauling them from Washington or California is the quick road to business failure, or at least working for less than minimum wage.

What can be done to assure cranberry growers a reliable supply of bee for pollination and keep beekeepers from abandoning cranberries as a crop? The short answer is increasing the pollination fee rates to cover the actual costs. \$45-50 or more is not out of line with what cranberry growers pay in the two other major cranberry growing regions in the Midwest and East Coast (\$75-90 per hive). But what really needs to happen is for beekeepers and cranberry growers to sit down together and try to find solutions that will assure the grower of reliable supply and beekeepers of a reasonable profit for their efforts and investment.

Pollination services are the single greatest factor which will determine the yield a grower can get from their crop. Quality hives, properly placed and maintained, will dramatically improve the yield in cranberries. This has been demonstrated by the work of Kim Patten for WSU and in "An Evaluation of Pollinator Management as Applied in the Commercial Production of Cranberries - 1987" Submitted to The Oregon Cranberry Growers Association by Michael Burgett, Assoc. Professor Department of Entomology, OSU and Arthur Poole, Extension Agent-Cranberries

Cont. on Page 6

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Cont. from Page 5 Horticultural Crop Management, Coos County Extension Service.

In this report, the researchers concluded that in 1986, the cost of hive rentals represented less than 1% of the gross yield to the grower. Now, it seems to us that if we had a service we could buy for 1% of our income that ensure the success of our hives, we would jump at the opportunity to enhance that service and support it to the fullest.

We also need to address the access to the bogs in early Spring, and better planning of the delivery time and schedule. We need to look at placing the hives with some form of protection from the winds which are a constant problem for the bees. When you stand and watch a returning bee miss the hive by three feet and struggle with her load to find the entrance, it is no wonder that the adult population in the hives decrease in the Bandon area during cranberry pollination.

We need to work with growers on the issue of spraying for pests. There are several cranberry pests that are at their maximum during the pollination cycle. Some growers have tried using Diazanon and irrigation right afterward. Research at WSU Long Beach has shown that Diazanon can

be used during the pollination cycle if it is sprayed at night and irrigated for 3-4 hours to dilute it to a safe level for bees, but few growers have committed to the time and expense of 3-4 hours of heavy spray irrigation spraying. The result is that they kill their pests alright, but they also kill all the field bees as well. This is not only a loss for the beekeeper, but it is a dramatic loss for the grower as well. It takes another three-week brood cycle for all those lost field bees to be replaced and the loss of nectar/pollen input to the hive drops the next cycle of brood as well. This means that the grower has just killed off three to eight weeks of pollination at the time when the cranberries are at their peak of flower! Maybe we need to work out some way to move the bees or other ways to deal with cranberry pests that do no result in pollination loss and bee hive stress.

Drs. Burgett and Royce at OSU and Patten at WSU as well as others back East have done extensive research on this high-value crop. With all this information at hand, we need to work with growers to implement a solution to these issues. It is in all of our best interest - after all, how can we expect to increase our income if we cannot also increase the grower's income as well?

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(Cont. from Page 1)

Friday afternoon sessions,

October 31, 1997

1:00 - 1:30 PM **"Pollination Requirements and Characteristics for Meadowfoam"** Dr. Lynn Royce, Oregon State University, Corvallis, OR

Dr. Royce has worked extensively with the Meadowfoam Growers Association to develop recommended practices for this sometimes difficult to pollinate crop. Get all the information necessary to service this fast-growing crop.

1:30 - 2:00 PM **"Squash and Pumpkin Pollination Requirements"** Ms. Jenny Gavilente, Oregon State University, Corvallis OR

Squash and pumpkins are a good late season crop that not only offers a pollination set, but can yield an excellent honey crop. Jenny will talk on the requirements of these crops and how to best service the client's needs and manage our bees in a late crop.

2:00 - 2:45 PM **"Varroa and Secondary Infections"** - Dr. Keith Delaplane, University of Georgia, Athens, GA

Dr. Delaplane will talk about considerations beyond just keeping our bees alive with the now pandemic varroa mites. Do they create a path for infections and what are "tolerable" mite levels.

2:45 - 3:15 PM Refreshment Break

3:15 - 5:00 PM **State/Province Business Meetings and Elections**

Election of new officers and new business for each of the participating groups. Make sure you participate in your organization and have a hand in setting the direction for your organization. Your officers do not want to work in a vacuum and this is one of your best chances to have some input.

Friday evening, October 31, 1997

5:00 - 5:30 PM **American Beekeeping**

Federation and National Honey Board Report - Fred Rossman, National Honey Board, Boulder, CO

Fred is not only one of the nation's leading beekeepers and a member of the National Honey Board, his is president of the ABF. The ABF has been in the forefront in the fight to keep the Chinese from "dumping" honey into the marketplace. Hear the latest changes on this hot issue and hear about the upcoming ABF Convention.

5:30 - 6:00 PM No Host Social Half-hour

6:00 - 8:00 PM **BANQUET** with the feature presentation - **"Problems in the Industry and How to Solve Them,"** Dr. Mark Winston, Simon Fraser University, Burnaby BC, CANADA

Our industry and hobby has gone through more dramatic changes in the last four years than in the past 150 years. What are the problems we face and how can we address these issues to be better beekeepers and better business persons.

8:00 - 10:00 PM **BENEFIT AUCTION** - The OSBA Auction is unlike ANY you have ever been at - not only are there bargains galore, see all of your friends at their best and get to know new people in a exciting and fun evening! The evening will open with the induction of the newest member of the Dead Skunk Society.

Saturday morning, November 1, 1997

7:30 - 8:00 AM Registration for Saturday

8:00 - 8:15 AM Announcements and drawings, George Hansen, OSBA President

8:15 - 9:00 AM **"Essentials Oils for Varroa Control Experiment,"** Dr. Steve Shephard, Washington State University, Pullman, WA

Essential oils have been touted as everything from the ultimate cure for all bee problems to a hoax. What is the REAL scoop on essential oils for beekeeping? Dr. Winston will present

Cont. on Page 8

- Italian Package Bees and Queens
- Pollination
- Honey



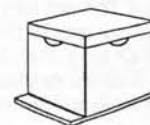
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(Cont. from Page 7) the first truly scientific test data on essential oils as a treatment for varroa mites.

9:00 - 10:00 AM "How Much Mite Infestation Can You Live With?", Dr. Keith Delaplane, University of Georgia, Athens, GA

We now keep our bees in a world with mites as a constant parasite to our bees. We cannot hope to eliminated them totally from our hives, so what level is a tolerable population for mites in the hive and how can we determine what the acceptable mite load is.

10:00 - 10:30 AM Coffee Break

10:30 - 10:45 AM Drawings and Announcements

10:45 11:30 AM "1997 Oregon and Washington Pollination Survey," Dr. Michael Burgett, Oregon State University, Corvallis, OR

OK, how much should you be charging for pollination services in squash or canberries. Dr. Burgett has developed and maintained the nations only data base on crop pollination prices. Hear what was charged, by crop, last year and how that compares to prices for previous years. This report is the most accurate indicator of how well or poorly our industry is performing, and will help you plan for the future.

11:30 AM - 1:30 PM Annual Oregon State Bee Lab Research Luncheon, with Dr. Michael Burgett, Oregon State University, Corvallis, OR

At past OSU Luncheons, Dr Burgett has presented programs on a broad range of topics and always has something unique and interesting for beekeepers. Profits from the Luncheon go the the OSU Bee Lab.

Saturday afternoon, November 1, 1997

1:35 - 1:45 PM Announcements and Drawings

1:45 - 2:15 PM "Report on the OSBA WWW HomePage and the Pollinator's List," with open discussion on future plans and directions, Ron Bennett, Luckiamute Bee, Monmouth, OR

Ron, as the charter member of the Dead Skunk Society, has developed a Internet HomePage for the OSBA. This includes a wide range of information supplied by fellow Dead Skunk Society member, Dr. Burgett. The HomePage includes the nations first list of beekeepers providing pollination services.

2:15 - 2:30 PM Refreshment Break

2:30 - 2:45 PM Final Announcements and Drawings

2:45 - 4:30 PM "Crop Pollination Issues" a Forum, Moderator - George Hansen

Panelists

Dr. Michael Burgett

Dr. Steve Shepherd

Squash Growers, TBA

Cranberry Growers, TBA

Blueberry Growers, TBA

Apple Orchardist, George Ing

Meadowfoam Growers Assoc., Larry Troisi

Commercial Beekeeper, TBA

Sideline Beekeeper, Ron Bennett

Commercial Packer, Joann Olstrom

Cont. on Page 11

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1998 Bee Masters Short Course

The 1998 Bee Masters Course will be offered February 16 - 21 at Simon Fraser University, Burnaby, British Columbia, Canada, just outside the scenic city of Vancouver.

Bee Masters is a week-long, intensive course in advanced beekeeping that has been held every second year for 46 years. The course is offered jointly by the B.C. Ministry of Agriculture and Simon Fraser University, and includes topics such as seasonal management, nutrition, queen rearing, pollination, diseases, mites, Africanized bees, pesticides, marketing, hive products (honey, pollen, propolis, royal jelly, wax, etc.), and much, much more. The course combines illustrated lectures, laboratory periods, social events, lots of discussion, and an optional final examination. Participants are expected to have previously kept bees and to have some knowledge about bees and beekeeping; hobbyists, side-liners, and commercial beekeepers are welcome, and all will benefit from and enjoy this course.

Lecturers for the 1998 course include Keith Delaplaine, Steve Sheppard, Marla Spivak, Mark Winston, Paul van Westendorp, Doug McCutcheon, and many others.

For further program and registration information contact:

Athena Roussinos (604) 291-3649 or Christina Wong (604) 291-4910 Conference Services, The Halpern Centre Simon Fraser University, Burnaby, B.C. CANADA V5A 1S6 Fax: (604) 291-3420 E-mail: Conference_Services@sfu.ca

Queen Symposium to be Feature of Colorado Springs ABF Convention

Are queens as good as they can be? Do your queens stop laying, but the bees don't supersede them? Are you having a high rate of superse-

sure? Just what's with queens these days?

These questions and more will be the focus of a special symposium on queen bee biology, production, use... and problems at the ABF Colorado Springs convention in January.

"A significant number of concerns have surfaced in the last two-three years to warrant such an intense, and in-depth symposium," says Kim Flottum, editor of Bee Culture magazine and coordinator of the symposium, "Queen Science, Production and Use."

Experts in their fields will examine the ins and outs of queens—from selection of the breeder stock to queen rearing to use in a production setting—from both the scientific and the practical perspective.

To cover the fundamentals of Queen Biology and Production, Dr. Marla Spivak, University of Minnesota, and Dr. Jeff Pettis, USDA ARS Beltsville Bee Lab, will be on hand to underscore the basics and more-than-basics. They will distribute a fact sheet to everyone attending.

Queen Production occurs in a variety of locations in the United States. There will be queen producers from each major region: Pat Heitkam, Northern California; Tom Glenn, Southern California; Danny Weaver, Texas; producers from the Southeast and North are still to be named.

Queen users, too, come from a variety of locations and have differing expectations - Honey Production, Jim Doan, New York; Honey Production and Pollination, Tom Hamilton, Idaho; Professional Migratory Beekeeping will also be covered by two or three people in the business.

Rounding out this coverage will be the Extension specialist's perspective coming from Dr. Eric Mussen, from the University of California at Davis.

The Queen Science, Production and Use Symposium is scheduled for Thursday afternoon and evening, Jan. 15, during ABF/98 - Colorado Springs. For general information on the convention, which will run Jan. 14-18, contact the ABF Office, P.O. Box 1038, Jesup, GA 31598, ph. 9124274233, fax 912427-8447, e-mail: convention@abfnet.org.

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Vice pres.: Jim Marshall, 502-642-3319
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Calendar of Events

Oct.	6	Southern Oregon Beekeepers
	7	Tualatin Beekeepers
	2	Tillamook Beekeepers
	12	Lane County Beekeepers
	9	Portland Beekeepers
	17	Coos County Beekeepers
	27	Willamette Valley Beekeepers
Oct. 30- Nov. 1		Tri-State/OSBA Fall Conference, Hood River
Nov.	6	Southern Oregon Beekeepers
	7	Tualatin Beekeepers
	2	Tillamook Beekeepers
	12	Lane County Beekeepers
	9	Portland Beekeepers
	17	Coos County Beekeepers
	27	Willamette Valley Beekeepers

(Cont. from Page 8) A Question and Answer session will follow the brief panel presentations.

4:30 - 4:45 PM Conference Wrap-up - George Hansen, OSBA President

The fees for this year's event are - Friday Conference Only - \$ 25 Preregistration, \$30 On-site. Saturday Conference Only - \$ 25 Preregistration or \$30 On-site. The Full Two Day Conference is \$35 Preregistration or \$40 On-site. The very popular and too-much-fun Friday Evening Banquet - \$ 22.00 per person. The Saturday OSU Luncheon featuring Dr. Burgett, with all profits going to the OSU Bee Lab is only \$14.00. This year there is no family rate because of the limited space and the demand for space, and the expense of bringing this quality program to the Northwest.

These prices are for members-in-good-standing with any of the sponsoring associations. If you are not a member, OSBA Membership Dues (including 10 issues of the *BeeLine*) is only \$15.00.



Recipe of the Month

Copper Cleaner

Parts by weight.

2.4 parts	beeswax
9.4 parts	mineral oil
42 parts	vinegar, 5% to 7% acetic acid
42 parts	citric acid, USP crystals
42 parts	soap flakes

Combine the soap and vinegar to make a paste. Melt the beeswax and mineral oil together in a microwave or a double boiler. Stir in the soap mixture and the citric acid. Let the cleaner set overnight before using it.

Apply the polish with a clean, damp cloth. Rinse the copper and wipe it dry with a clean cloth.

LOOK AT YOUR ADDRESS LABEL

Technology has finally caught up with our mailing list. You will note that there is a code or more likely a date after your last name. This is the date of expiration of your membership. We will be tightening up on past due membership dues starting next month. You will stop receiving the *BeeLine* and your membership will be inactive 60 past the due date.

Membership and Publications

Membership in the Oregon State Beekeepers Association is open to anyone who has an interest in bees and beekeeping. You do not need to own bees or reside in Oregon to join the OSBA. OSBA Membership is \$15 per person and includes a vote in all OSBA elections, listings on the WWW HomePage, discounts on other bee-related publications, 10 issues of *The Bee Line*, and more. And, if you are already a member of a local group, your group will receive \$1.00 from your OSBA dues. Foreign membership is \$23.

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<i>The Speedy Bee</i>	<input type="checkbox"/>	1 yr. \$13.25	<input type="checkbox"/>	2 yrs. \$25.25		

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