



# W.A.S.

# JOURNAL

THE WESTERN APICULTURAL SOCIETY  
OF NORTH AMERICA

VOLUME 17 NUMBER 4

October 1997



**Western Apicultural Society  
of North America**

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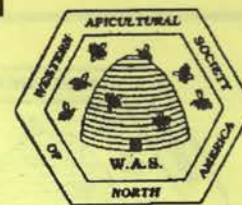
All membership inquiries, dues payments, new memberships and renewals should be addressed to the treasurer. (Address and phone number above)

**Publication Schedule**

The Journal is published quarterly.  
*October* following the conference with a submission date for material of October 1st.  
*January* with submission deadline of January 1st.  
*April* with conference information and a submission date of April 1st.  
*July* with final conference details and a submission date of June 15th.

Articles, news, letters to the Editor or President, or other items of interest are not only welcome but solicited from the membership on a regular or one time basis.

**Western Apicultural  
Society**



**of North America  
Board of Directors**

Each state/province in Western North America is entitled to elect one Director on the governing board of the Society. Directors meet before and after each general meeting and set policy and guidelines for the operation of the business of the Society. Throughout the year they serve as the liaison between the Society officers and the members in their respective states. They are responsible for recruiting new members, keeping track of state concerns and advising the membership of their activities through this Journal. The board currently consists of the following members:

**Washington**

Claude Dilly, 1350 N Balda Rd, Oak Harbor, WA 98277 (206) 675-8756

**Oregon**

George Steffensen, 1634 Fish Hatchery Rd, Grants Pass OR 97527 (503)4744305

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**Utah**

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**California**

Charles Duncan, 2210 Wilshire Blvd Suite 344 Santa Monica, CA 90403 (310) 828-9391

**Alberta**

Ed Hansen 12425 134th St. Edmonton AL T5L1V3 455-6208

**Other states and Provinces**

Vacant.

## W.A.S. is On-line ! !

You can reach W.A.S. (Ron Neese, Treasurer) on the internet at: was@mother.com. If you have any suggestions or ideas about how to use our internet connection to better benefit, send an e-mail note to the above address. The Journal Editor can be reached at burtsbs@nccn.net and items for publication can be submitted by E-mail. Fax is available by appointment only. Call (916) 273 0736.

## THE EDITOR'S CORNER

**The mailing list:** Please keep us informed of your *current* mailing address. We would like to insure that you receive your Journals and must have a correct mailing address to get it to you. If you move, change addresses or post office boxes, don't forget to send us a change card. Some names have had to be deleted from the mailing list as we have no valid addresses. This includes several "Life" members.

**Contributions:** The editor would appreciate receiving articles in scannable form--plain text font, upper-lower case, if typed--a good ribbon and a minimum of strikeouts or corrections. You may submit them by E mail. (burtsbs@nccn.net)

**Advertising:** We are looking for more advertisers too, so those of you who would like to run an ad or just your card as a booster item, send your camera ready black and white copy and check to the editor.

**Dues:** Don't forget to send in your WAS dues and to notify us of any change in your mailing address--Send your dues to Ron Neese but please also send any change of address to me. Burt Spangler, (916) 273-0736, Fax (916) 273-0495, e-mail: burtsbs@nccn.net

**Next Issue:** The next issue is scheduled for **January, 1998** and I will need any material to be included by **January 1st, 1997**, but please get it to me as early as possible but no later than that.

**Photos in this Issue by Ray Hicks**



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## WESTERN APICULTURE SOCIETY

MINUTES, DELEGATES AND DIRECTORS MEETING  
August 18, 1997

A. The meeting was called to order at 3:10 p.m. by President Eric Mussen.

Those attending were: Nancy Stewart, Secretary; Burt Spangler, Journal Editor; Ron Neese, Treasurer; Charles Duncan, Director CA, Eric Mussen, President, Joe Erickson, Director CO, George Steffensen, Director OR, Leonard Joy, in place of Director NV, Olive Jones, Nominations Committee Chair.

B. Minutes of previous meetings.

The minutes were approved as printed in the Journal on a motion by C. Duncan, seconded by R. Neese.

C. Officers' Reports

1. The President reported on the current conference registration figures and complemented Eric Erickson and his right hand, Diana on the quality of the conference planning and execution. He also appointed Charles Duncan as the Resolutions Chairman for the conference.

2. Nancy Stewart, Secretary reported on the year's correspondence, most of which is inquiries about W.A.S. and are answered with the brochure and most current Journal. The supply of brochures is almost gone and Charles Duncan recommended we update and print more. Ron Neese will edit it and Eric Mussen will make the changes on his computer and have it printed.

3. Ron Neese, Treasurer, presented his financial report and it was placed on file. Membership has increased since last year. Charles Duncan gave a statement of thanks to the Treasurer, noting his excellent service.

D. Journal Editor's Report

Burt Spangler, Journal Editor, reported that four issues of the Journal were published on time and within budget and that the system for paying is working well. Burt said that he would remain editor for one more year if asked, but perhaps not after that.

E. Committee Reports

1. Burt Spangler, Auditor, read his report and placed it on file. G. Steffensen moved and Charles Duncan seconded a motion to approve the

report with a corrected typo. Motion carried.

2. Sites Committee chair was not present. The President summarized the following site proposals: 1998: Washington (Steve Sheppard, WAS contact); 1999: British Columbia (in conjunction with APIMONDIA, Mark Winston WAS contact), 2000: Alaska (if Hal Livingston is able to be the contact person). The group discussed the possible B.C. 1999 site - cost, time of year, how to maintain our meetings at Apimondia. R. Neese moved we approve 1998 and 2000, with 1999 to be decided at the general meeting. O. Jones seconded. Motion carried.

3. The President reported on the Awards.

4. Olive Jones will give her Nominations report at the general meeting.

5. By-laws changes will be printed by the secretary and sent to the Executive Committee members with a letter asking for additions or corrections. If members are not heard from within a given time, it will be taken as approval as printed.

6. There were no Resolutions.

F. There was no Unfinished Business.

#### G. New Business

1. There was discussion of a discount on membership for Couple Life members who had been paying yearly. B. Spangler moved that a Charter member could become a Life member as follows: \$50.00 for an individual; \$75.00 for a couple. L. Joy seconded. After discussion, C. Duncan moved to amend the motion by substituting "active member having paid dues for the last five years" for "Charter member." L. Joy seconded. The amendment carried. The original motion, as amended, carried.

H. Ron Neese moved we adjourn at 5:04 p.m. C. Duncan seconded and the motion carried.

Submitted by Nancy Stewart, Secretary

**Question: Why did the teacher give Johnnie a "B"?**

**Answer: He had hives.**

## 1997 W.A.S. Annual Business Meeting

August 21, 1997  
Carl Hayden Bee Lab  
Tucson, AZ

### Minutes

A. The meeting was called to order by President, Eric Mussen, at 3:03 pm.

Those in attendance were: Franklin Carrier, Helynn Carrier, Charles Duncan, Jo Ann Erickson, Joe Erickson, Kim Flottom, Kari Hallopeter, Olive Jones, Leonard Joy, Ray Hicks, Eric Mussen, Ron Neese, Rose Ann Phelps, Wilburn Phelps, Ben Pugh, Steve Sheppard, Betty Spangler, Burt Spangler, George Steffensen, and Fred Stewart.

#### B. Minutes of previous meetings

Charles Duncan moved, and Burt Spangler seconded, to accept the minutes of the 1996 business meeting as published in the WAS Journal.

Motion carried unanimously.

Ron Neese moved, and Charles Duncan seconded, to dispense with the reading of the minutes of the August 18 Delegates and Directors Meeting (due to the absence of the Secretary).

Motion carried unanimously.

#### C. Reports of Officers

1. President Eric Mussen reported that 1997 WAS Program Chairman, Eric Erickson, had organized a very good meeting. Contact between the President and local arrangements personnel was frequent and fruitful. If this was the norm for how it was to be President, it would be a good life-time job!

2. Secretary Nancy Stewart was unable to attend the business meeting due to sickness.

3. Treasurer Ron Neese reported on the membership statistics and the financial status of the organization. He distributed a detailed financial report. Our Hawaiian meeting was a financial success, and the Tucson meeting appeared to be close to "break-even."

#### D. Report of Editor

Editor Burt Spangler related that all WAS Journal issues were prepared and mailed on time. Burt said that he would like to continue in this

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capacity, if his health allowed. He also said that he would like more input for the Journals, especially information from some of the Directors. He would like to have a "Directors' Corner," if enough directors would be willing to send things to him, periodically.

The members applauded Burt's excellent performance in formulating and dispensing the Journals.

#### E. Reports of Committees

1. Auditor Burt Spangler thoroughly reviewed the books and various paper trails that are used to track the finances of the Society. An Auditor's Report was written, printed, and handed out for review. No deficiencies were noted in the Treasurer's books or report, so Charles Duncan moved, and Kari Hallopeter seconded, that the Auditor's and Treasurer's Reports be accepted as distributed.

Motion carried unanimously.

2. Nominating Committee chair Olive Jones listed current Directors and suggested names for replacement Directors for those leaving office. Since there was not adequate representation from the states to hold nomination delegation meetings this year, Ron Neese moved, and Charles Duncan seconded, that the requirement for state delegation meetings be dispensed of for this year.

Motion carried unanimously.

Leonard Joy (Nevada), Rose Ann Phelps (Utah), and Jo Ann Erickson (CO) were listed for approval.

The rest of the nominations included: President - Steve Sheppard; Vice president - TBA; 2nd Vice-president - Leonard Joy; Secretary - Nancy Stewart; Treasurer - Ron Neese.

3. Resolutions - There were none.

4. Sites - By default, the next three meeting sites for WAS conferences will be: 1. Pullman, WA; 2. Reno, NV (second week in July); and somewhere in Alaska.

Motions by Ron Neese and seconds by Steve Sheppard and Fred Stewart cemented in the choices. Motions carried.

#### F. Unfinished Business

There was no unfinished business, as such, but the Membership Brochure and the By-laws will be worked on internally. The By-laws revision will be published in the WAS Journal, before the vote is taken at the next membership meeting.

#### G. New Business

1. Elections - Officers and Directors were voted into office, unanimously.

2. Other - Kim Flottom asked if we would be interested in a joint display/information booth (table?) at the September, 1999, Apimondia meeting in Vancouver, British Columbia. This effort would be sponsored by the Eastern Apicultural Society, the American Beekeeping Federation and ourselves. Since a number of WAS members are anticipating attending the international meeting, there is expertise to develop information about US and Western beekeeping, we said that we were interested in following the plans and helping where possible.

H. Communication and Bills - None

I. Resolutions - None.

#### J. Adjournment

Charles Duncan moved and George Steffensen seconded that the business meeting adjourn at 4:24 pm.

Motion carried.

Respectfully submitted,  
Eric Mussen, for Nancy Stewart

## **1997 W.A.S. Board of Directors / Delegate Post-conference Meeting**

August 21, 1997  
USDA Bee Laboratory - Tucson, AZ

### **Minutes**

#### 1. President's Remarks

President Steve Sheppard was unable to stay at the conference long enough to conduct the Board meeting, and Past-president Eric Mussen volunteered to serve.

The meeting was called to order at 4:28 pm.

Those attending were: Charles Duncan, Jo Ann Erickson, Joe Erickson, Olive Jones, Leonard Joy, Eric Mussen, Ron Neese, Rose Ann Phelps, Burt Spangler, and George Steffensen.

# FLASH FLASH FLASH

## LATE BREAKING NEWS 1998 CONFERENCE SITE SELECTED

President's Message  
by Steve Sheppard

The 1998 Annual WAS Conference will be held in Moscow, Idaho. Moscow, Idaho and Pullman, Washington are situated 8 miles from each other and are home the University of Idaho and Washington State University, respectively. The location is at the junction of the mountains of west central Idaho and the rolling Palouse hills of southeastern Washington. The Snake River is 20 miles away and nearby attractions include Hell's Canyon, where the river slices through a gorge one and a half times deeper than the Grand Canyon, Kamiak and Steptoe Buttes, where billion year old granite domes tower above the rolling Palouse wheat fields and myriad other scenic rivers, lakes, mountains and geological attractions. However, for those craving the real outdoor experience, a two hour drive places you at the edge of the Selway-Bitterroot Wilderness. Here you can camp and if you have the time venture more than a hundred miles eastward to Montana before encountering another road.

Locally, Pullman and Moscow offer the cultural advantages of having two major universities in juxtaposed small town settings. Saturday farmers' markets, the National Lentil festival, summer music festivals and other local activities abound. Both towns have excellent "pedestrian friendly" downtown areas with antique malls, used book stores, theaters, craft shops and farm implement dealers. Bus service runs regularly between the two towns for a very nominal charge (senior citizens free, others less than \$2).

The venue for the conference will be the University Inn and Conference Center (Best Western) of Moscow. It is located directly across from the University of Idaho on the Moscow-Pullman road. The meeting room/ exhibit hall facilities are exactly to our specifications and the overall facility has numerous amenities for a pleasurable stay including (but not limited to...) a pool, Jacuzzi, sauna, exercise room, two bars, a 24 -hour

cafe, a restaurant, and central courtyard. Room rates will be comparable to the 1997 Tucson conference. Exact details are being negotiated to include the gratis use of the meeting rooms.

Next to the University Inn is a shopping mall (largest in the area) and we are assured that self-contained RV goers can use the Mall parking lot next to the Inn during their stay. An RV park with full hook-ups is on the south edge of town (3-4 miles). Numerous shops and restaurants are within walking distance, including the "Treaty Grounds" - Moscow's local brewpub serving "Pullman Red" and "Moscow Gold". The Washington State University Apiary is located nearby (6 miles) for some hands on activities. In fact, the apiary is next to the wildlife area with Bighorn Sheep and Grizzly Bear research facilities. Fences appear adequate as we have had no bear problems to date...

For those of you unfamiliar with this region, airline connections are available through three means: The Pullman-Moscow airport (3 miles) is served by 19 daily Horizon/Alaska Air commuter flights. Service to nearby Lewiston, Idaho (30 miles) can be had via Horizon and Delta Express (flights to Lewiston are sometimes less expensive than to Pullman). Finally, Spokane International airport (80 miles) is served by a large number of carriers.

One final note, a colleague from the University of Idaho told me that Moscow is pronounced by residents as "moss coe" - perhaps to differentiate their city from that of Cold War fame. Early lessons from residents included the phrase "there are no cows in Moscow" to help remind him.



## 2. Appointments of Committee Chairs

- A. Editor - Burt Spangler
- B. Auditor - Burt Spangler
- C. Sites - (Mike Burgett, tentatively)
- D. Nominations - Olive Jones
- E. By-laws - Eric Mussen
- F. Other

## 3. Appointments

- A. Conference Program Chair  
- President Sheppard
- B. Parliamentarian - Ron Neese
- C. Vacancies - None
- D. Other

## 4. Committee Reports - None

## 5. Old Business - None

## 6. New Business

### A. Comments for improvements on conference schedule:

1. Beverage breaks should be lengthened back to about an hour (for socializing).
2. Venue should not house participants in University dorms.

(Editorial aside from early September: too bad, since Steve found out that rooms were \$16 a night and meals, three per day, \$16 a day, on his campus)

3. ad hoc. Reno conference committee to get on it soon (Leonard Joy, Eric Mussen and Ron Neese) - already reserved the second week in July, 1999, at John Ascuaga's Nugget Casino in Sparks.

## 7. Adjournment.

The meeting adjourned at 4:50 pm by a unanimous vote on a motion by Burt Spangler.

Respectfully submitted,  
Eric Mussen, for Nancy Stewart.

### **LOST AND FOUND**

Dr. Erickson reports that there was a disposable camera left behind in one of the vehicles that went to the AHB yard. He will be happy to send it to the owner.

# Western Apicultural Society

## Auditor's Report 1996-1997

The financial records of the Western Apicultural Society were examined at Grass Valley, CA, on Saturday, August 9, 1997 by Burt Spangler, duly appointed auditor.

The financial records system has not changed from that used in prior years and described in previous audit reports. It is a computerized system which generates all the standard, generally accepted accounting report formats. These are normally made available to members attending the general business meeting of the Society at the annual conference. It was noted that the financial condition of the Society remains healthy and that the 1996 conference, held in Hawaii, resulted in an overall increase in equity of about \$2800.

The current fiscal examination included a review of the computer printouts (trial balance, general ledger, general journal, profit and loss statement, and balance sheet). The checkbook and receipt book are the primary entry records and were spot checked and random audit trails established, resulting in no finding of errors or faulty entries. Separate receipt books are maintained, one for conference income and one for other WAS cash receipts. The checkbook is supported by a packet of receipts and invoices corresponding to each check written. Bank deposits are duly entered in the check stub register.

As of June 30, 1997 the assets shown were \$15,360.08, consisting of cash in the bank and outstanding deposits for the publication of the Journal. No liabilities were shown and the Equity reflected the asset total.

### **Audit exceptions**

No audit exceptions are reported.

### **Response to previous recommendations**

Previous audit recommendations have been noted and followed.

### **Weaknesses**

None noted.

### **Recommendations**

It is recommended that:

1. That current accounting method and record keeping procedures be continued.
2. That the Treasurer be commended for the adequacy of his records and the work and diligence applied to his position.

Manford B. "Burt" Spangler, Auditor



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Try making furniture or floor polish by melting together half beeswax and half linseed oil and mixing to a smooth paste. Beeswax candles are dripless, smokeless, long burning, and have a pleasant scent. They may be molded, dipped, or rolled from beeswax sheets. Beeswax is the base for many popular cosmetic items as well as lip balm and medicinal cremes. We use much of it as foundation for new combs in the beehive. Bees wax is a handy substance. No tool kit or sewing kit is complete without a cake of beeswax.

## SIMON FRASER UNIVERSITY


September 15th, 1997

### 1998 BEE MASTERS SHORT COURSE

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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, sideliners, and commercial beekeepers are welcome, and all will benefit from and enjoy this course.

Lecturers for the 1998 course include Keith Delaplane, 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) 2914910 Conference Services, The Halpern Centre Simon Fraser University, Burnaby, B.C. CANADA V5A 1S6 Fax: (604) 291-3420 E-mail: Conference\_Services@sfu.ca



### THE ROY THURBER MEMORIAL AWARD

The Western Apicultural Society is proud to announce the selection of Ed and Dee Lusby, Tucson, AZ, as recipients of the A. I. Root Roy Thurber Memorial Award for 1997. The award, which has been presented intermittently since 1986, specifically recognizes 'Inventiveness in Beekeeping'.

Ed and Dee are full time commercial beekeepers who rely on native desert plants rather than cultivated crops for their honey and pollen production. Ed is a fourth generation beekeeper. His great grandmother, Ada Duncan, began keeping bees in 1888 to assure a family livelihood following a severe decline in the cattle business in Alabama. In 1927, his grandfather Bill arrived in Tucson, via Oklahoma, where the family business has thrived ever since. Dee grew up in New York city, but spent her summers on her uncle's upstate New York farm. Her uncle kept a few colonies of bees as a hobby and it was here that Dee was first exposed to the world of bees. After a stint in the United States Army she married Ed in 1984 and began beekeeping in earnest.

Dee and Ed work side by side in all phases of their operation. In addition to the conventional activities of beekeepers such as maintenance of equipment, colony management and the harvesting of honey and pollen, they mill their own wooden ware and wax foundation, select and maintain a stock of slightly smaller bees highly adapted to their area, produce their own queens, and market a portion of the bee products they harvest. Their non-chemical 'back to basics' approach to beekeeping leads them to spend much of their spare time in libraries where they search for obscure

bits of information which, when assembled in logical order, yield insights into old problems such as bee kills due to the use of pesticides, and new problems like parasitic mites. Such has been their pursuit of an understanding of the importance of comb cell diameter, an issue emanating out of their bee breeding activities and search for non-chemical methods of resolving disease and mite problems.

The Lusbys found that comb cell diameter differs among the various sources of foundation manufactured in the United States and around the world. Following publication of this discovery in 1990, they undertook an all out effort to resolve the question of optimal cell diameter and its potential impact on colony vigor. Having identified, to their own satisfaction, optimal cell diameter for their geographic area (Southern Arizona), they have nearly completed converting their entire operation to a 'natural system' incorporating their concept of smaller cells. They have widely reported to beekeepers that their use of optimal cell diameter has significantly reduced disease and mite infestation in their colonies while simultaneously increasing brood viability and colony productivity. Convinced, a number of beekeepers have embraced the Lusby's management strategies. Ed and Dee have now turned their attention to developing a world map that will identify, for beekeepers, optimal cell diameter by latitude. Publication of this map will be forthcoming.

The Lusbys have worked tirelessly over many years to mitigate the impact of agricultural pesticides on honey bee colonies, even though their own apiaries are seldom if ever impacted by these chemicals. They have established an informal bee/pesticide information network which beekeepers, particularly those in southern Arizona, often access. They have taken the time to learn the rules and regulations governing the use of pesticides, to assure that state and federal authorities are adequately informed regarding the hazards of pesticides to honey bees, and to encourage these authorities to ascertain when pesticides are improperly applied and take appropriate corrective action.

Dee and Ed hold or have held elective offices in the Southern Arizona Beekeepers Association and the Arizona Beekeepers Association. They have contributed to several scientific publications. They share a passion for improving the business of beekeeping, not only for themselves, but for the welfare of fellow beekeepers around the world. To this end they have selflessly contributed their time, including the hundreds of hours they have spent in

libraries and on the phone gathering facts, as well as their own financial resources. They are known to generously share their time, ideas, and knowledge with fellow beekeepers around the world. Beekeepers in third world countries are particularly interested in their 'do-it-yourself' approach to producing one's own hives, frames and foundation. Least well known is the quiet generosity that Ed and Dee have shown in assisting beekeepers less fortunate than themselves, some of whom they have been known to help financially on occasion.

Ed and Dee are to be applauded for their selfless dedication to improving the art and science of beekeeping for beekeepers everywhere. Their contributions reflect the true spirit of the A. I. Root Roy Thurber Memorial Award.

### **OUTSTANDING SERVICE TO BEEKEEPING AWARD, 1997**

#### **Gloria DeGrandi-Hoffman**

The Western Apicultural Society takes great pleasure in announcing the selection of Dr. Gloria DeGrandi-Hoffman as the recipient of the 1997 award for Outstanding Service to Beekeeping. Gloria is a very creative and productive Apiculturist who has made numerous scientific contributions that have benefited the Beekeeping Industry and crop production systems that rely on honey bees for pollination.

Gloria constructed and validated the first cross-pollination and fruit set simulation models for apple and almond growers. These extremely elaborate models, that take into consideration daily weather conditions, orchard conditions, and honey bee visitation data, can generate site-specific fruit/nut set predictions at any time during bloom. Estimates generated by the grower can be used to time colony movement into and out of orchards, and thus optimize pollination under a wide range of bloom and weather conditions, which are evaluated continuously as the season progresses. These programs are available as public domain software.

In the course of her apple research, Gloria determined that tree to tree movement of foraging bees does not account for all the cross-pollination and fruit set in the orchard. After analyzing other methods by which honey bees could acquire pollen from pollinizer varieties, she concluded that pollen transfer in the hive during physical contacts among nest mates is one of the primary means by which honey bees cross pollinate apples. This revolutionary new concept has now been carried



over into research on other bee-pollinated crops.

Gloria also constructed and validated the first honey bee colony population dynamics and genetics models for honey bees. These models are providing direction and new perspectives for research, especially in the areas of parasitic mites, the effects of pesticides on honey bees, and the process of Africanization of honey bee populations.

More recently, Gloria led a team that, through a series of studies, determined the influence of temperature and colony thermoregulation on queen development time. The results of these studies go a long way toward explaining the process by which European honey bee colonies become Africanized and the dominance of Africanized bees. These findings are leading to ways of maintaining desirable strains of honey bees in Africanized areas.

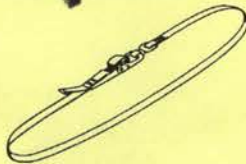
Gloria also led a team that has just completed a money management/cash flow model for beekeepers. This model allows beekeepers to test various management strategies and fine tune their practices to maximize profit. Moreover, it allows prospective beekeepers to examine various colony and business management strategies to determine the relative profitability of beekeeping before investing. All of her models are available upon request, free of charge.

For all of her accomplishments, that will be providing management decision tools for future beekeepers and growers well into the 21st century, we were pleased to bestow this honor on Dr. Gloria DeGrandi-Hoffman at our 19th Annual WAS Conference.

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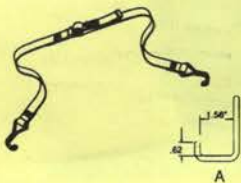
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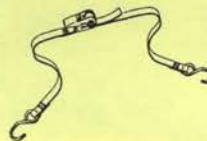
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