

# EAS JOURNAL

EASTERN APICULTURAL SOCIETY OF NORTH AMERICA, INC.

JUNE, 1977

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1977  
June

## 23rd ANNUAL CONFERENCE OF THE EASTERN APICULTURAL SOCIETY TO BE HELD AT UNIVERSITY OF DELAWARE, NEWARK, DELAWARE AUGUST 17, 18, 19, and 20, 1977

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JUN 16 1977

Dr. Dale Bray, President

### Wednesday, August 17, 1977

- 1:30 - 4:30 p.m. Registration - Clayton Hall
- 5:00 p.m. Reception - Cash Bar - Lobby, Clayton Hall
- 6:00 p.m. Dinner - Calyton Hall Ballroom
- 7:30 p.m. Workshop - *Dr. Caron* - Mead Making - Tasting - Cheese & Crackers - Auditorium
- 8:00 p.m. Delegate's Meeting, Room 125
- 9:00 p.m. Director's Meeting, Room 125

### Thursday, August 18, 1977

- 7:00 a.m. Breakfast, Ballroom
- 9:00 a.m. Auditorium
- Call to Order: President EAS, *Dr. Dale F. Bray*
- Welcome: *W. E. McDaniel*, Secretary
- Delaware Department of Agriculture
- Invocation: *Rev. Marvin Hummel*
- University of Delaware
- 9:30 a.m. Speaker - *John Root*, Vice President, A. I. Root Company - "A Close Look at the Honey Bee"
- 10:15 a.m. Coffee Break, Lobby
- 10:30 a.m. Speaker - *Bernard Walulik, D.V.M.*
- "There's Gold in Old Equipment"
- 11:15 a.m. Speaker - *John Ambrose*, North Carolina
- 12 Noon Lunch, Ballroom
- Ladies' Luncheon, Herculese Country Club
- Bus at Clayton Hall
- 1:15 p.m. *Dr. Robert Berthold* - Beeswax Workshop - Auditorium
  - 1. Slides
  - 2. Demonstrate Pouring Candles - Dipping Candles - Batik
- 3:15 p.m. *Walter Wilson*, Equipment Assemblying
- 4:00 p.m. Professional Apiculturists Meeting, Room 123

his Indiana tests honey in corn fields for pollen st.

the pollen pellets brought in Urbana from July 12 to ed the top two or three se ratings reflected the s collected in pollen traps, primary source on July 19 29 percent corn pollen. In llen also ranked among the ly 20, 22, 26 to 31, August colony collected less corn ions from July 28 to August d most important pollen entage collected by either 1 August 5. Half the pollen y were from corn. These / with Turpin's results in t to the idea that spraying e July and early August can y bees.

as planted early, beetles orn silked late, making stles to eat the silks and ering with pollination. In beetle populations, control event economic losses. rmers treated their corn first to learn how many and largely acreages were is not known exactly why so e. It probably looked like a prevent silk damage while ear's rootworm population. ase of follow the leader.

that corn rootworm controls s this year, and in coming 6. However, if you keep bees should keep up with any is and pesticide usage that or soybeans.

AYCOX, EXTENSION BEEKEEPING SPECIALIST

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5:30 p.m. Social Hour - Cash Bar - Out of doors behind Christiana Towers  
 6:30 p.m. Dinner - Surf & Turf, Delaware Style - Out of doors behind Christiana Towers  
 8:00 p.m. Square Dance - Everyone invited - Ballroom

**Friday, August 19, 1977**

7:00 a.m. Breakfast  
 8:45 a.m. Call To Order: *Phil Bowman*, Delaware Bee Inspector  
 Speaker - *Dr. Rinderer*, USDA, Louisiana  
 "Directions in Bee Breeding"  
 9:30 a.m. Speaker - *Dr. Dewey Caron*, University of Maryland  
 "Queen Replacement"  
 10:15 a.m. Break - Lobby  
 10:30 a.m. Speaker - *Dr. Raymond Choban*, IR-4  
 11:15 a.m. Business Meeting, Auditorium  
 12:30 p.m. Lunch - Ballroom  
 1:30 p.m. Workshop, *J. C. Matthenius, Jr.* - Bee Disease Slides - Auditorium  
 2:15 p.m. *Bess Clark*, Cooking with Honey - Auditorium  
 3:15 p.m. *Joseph Gitta*, Making Straw Skeps - Auditorium  
 4:00 p.m. *John Lindner*, Opening Bee Hive - Out of Doors, behind Christiana Towers  
 5:30 p.m. Social Hour - Cash Bar - Lobby

6:30 p.m.

7:00 a.m.  
 9:00 a.m.

9:45 a.m.

10:30 a.m.  
 10:45 a.m.

12:30 p.m.

*Shows will be on*

*The Eastern Api  
 Apiculture Inst  
 conjunction with*

**EAS JOURNAL**  
 Eastern Apicultural Society  
 of North America, Inc.

President Dr. Dale F. Bray  
 University of Delaware  
 18 South Parkway, Newark, Delaware 19711  
 First Vice President Dr. Charles Mason  
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 109 N. Feltus St., South Amboy, N. J. 08879  
 Published every other month at 109 No. Feltus St., South Amboy, N. J.  
 E.A.S. Journal \$2.00; Member \$3.00\*; Joint membership \$4.00\*; Family Membership \$6.00\*; Commercial Membership \$50.00\*; Life Membership \$100.00\*; Association Membership \$25.00\*.  
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**MEMBERSHIP;** The Eastern Apicultural Society of North America does membership for eligibility. Membership is automatic for those attending the full conference. Membership dues for 1976-77 are \$3.00, deducted from your current membership. Membership confers an education from the conference. **ACCOMMODATIONS:** Our rooms but lodging is in John M. Clayton Hall; it is a complex where we have 12 conditioned rooms. Elevators are on ground level. Linens, towels, and coffee are furnished. Each room has a private bathroom. These are not provided with the Lady's Program, there are events.

**FULL CONFERENCE F  
 LODGING** in Christiana Towers  
 Double-\$51., Triple-\$43., Q

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Ballroom

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- Bee Disease Slides -

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6:30 p.m.

Awards Banquet, Clayton Hall Ballroom  
Banquet Speaker - *Dr. Edward H. Rosenberry*  
"Birds, Bees and Other People in Literature"

**Saturday, August 20, 1977**

7:00 a.m.

Breakfast, Ballroom

9:00 a.m.

Call to Order: *John Root*, Vice Preident, A. I. Root  
Company

Speaker - Hambleton Award Paper

*S.E. McGregor* - Retired Apiculturist

Agriculture Research Service

Western Region Tuscon Ariz.

Author of "Insect Pollination of Cultivated  
Crop Plants"

9:45 a.m.

Speaker - *Dr. Elton Herbert*, Beltsville

"Recent Developments in our Search for an  
Effective Pollen Substitute"

10:30 a.m.

Break - Lobby

10:45 a.m.

Speaker - *Larry Connor*, Genetic Systems, Inc.

Establishing a Large Scale Instrumental

Insemination Program for Commercial

Queen Production"

12:30 p.m.

Lunch, Ballroom

*Shows will be on display throughout the entire Conference in Rooms 120 & 121.*

*The Eastern Apicultural Society of North America welcomes the International  
Apiculture Institute, which will hold their organizational meeting in  
conjunction with EAS. Welcome Aboard.*

**MEMBERSHIP;** The Eastern Apicultural Society of North America does not require individual membership for eligibility to attend its conference. Membership is automatically granted to each person attending the full conference. If you have already paid your dues for 1976-77, this amount is to be deducted from your conference payment. Life membership confers an automatic three dollar education from the conference cost.

**ACCOMMODATIONS:** Our meeting place will be the John M. Clayton Hall; it contains all the meeting rooms but lodging is in the Christiana Towers complex where we have 1200 beds - everyone in air conditioned rooms. Elevators serve all floors above ground level. Linnens, towels, bedding, etc. are all furnished. Each room has its private bathroom. These are not provided with TV or radio. Except for the Lady's Program, there will be no off-campus events.

**FULL CONFERENCE FEES PER PERSON**

LODGING in Christiana Towers: Single-\$67., Double-\$51., Triple-\$43., Quad-\$35. Subtract \$10.

per person under 12 years of age. Lodging service may not be assured unless your reservation is in by August 3.

MEALS will be \$44 per person. There will be no provision for individual meals to be purchased during the conference other than the Bull Roast, Ladies Luncheon, and Banquet.

GRAND TOTAL - Lodging, Meals & Registration: Single-\$123., and Double-\$214., etc.

**TRAVEL TO NEWARK, DELAWARE**

BY AIR -

No airlines serve Newark. The nearest airport with shuttle service is Philadelphia International. It costs \$12.20 for the first passenger and \$5.35 each additional passenger to use the shuttle service from Philadelphia to Clayton Hall.

Greater Wilmington Airport serves private planes, but there is only taxi service to Clayton Hall (about 10 miles).

BY BUS -

Continental Trailways Coach Lines serves

Newark from New York City and Washington D.C. There are three arrivals and departures each day in Newark connecting both cities. From N.Y. buses arrive in Newark at 10:10 a.m., 3:25 p.m. and 5:20 p.m. From Washington buses arrive in Newark at 8:35 a.m., 9:35 a.m. and 4:05 p.m. Each bus is an Express and takes about 2½ hours to reach Newark from either N.Y. or Washington. Taxi service must then be used to reach Clayton Hall (about 1 mile).

**BY TRAIN -**

The Penn Central Railroad services Wilmington on a very liberal schedule. Taxi's must be used from the Wilmington Station to Clayton Hall (about 13 miles)

**BY AUTO -**

Newark is located in the northwest corner of Delaware. Route 896 which leads to John M. Clayton Hall, runs through the town in a N-S direction. Interstate 95 passes through the southern part of the town's limits. You can exit from I-95 onto Route 896. From the west and southwest you can choose among the Pennsylvania Turnpike (I-76) (I-95), or Rt. 40. From the south you can take Rts. 13 or 301 to Route 896. From the north you can take I-95 to Route 896. From New Jersey you take the New Jersey Turnpike to I-295 and go over the Memorial Bridge to hook up with I-95.

**PARKING**

Free parking is available in lots that jointly

serve Clayton Hall and the Christiana Towers.

Campers are not permitted to stay in FREE PARKING AREA over night. They must return to AOK or Lums Pond Campgrounds -- shown on map.

**POINTS OF INTEREST SURROUNDING THE UNIVERSITY OF DELAWARE - (See map for general locations in box)**

**LONGWOOD GARDENS (1)**

One of the finest formal gardens and conservatories in the world. Open seven days a week - outdoors from 8 a.m. to sunset - indoors from 11 a.m. to 5 p.m. Under development since 1906 when acquired by Pierre Samuel DuPont. Located 40 minute drive north of University at intersection of US 1 and State Route 52. Admission charge. This could be a highlight of the trip.

**BRANDYWINE RIVER MUSEUM (2)**

An outstanding collection of paintings by the Wyeth family and many others. Open daily from 9:30 a.m. to 4:30 p.m. Admission charge. Located 50 minute drive north of University at intersection of US 1 and State Route 100 at Chadd's Ford, Pa. - the home of Andrew Wyeth.

**DELAWARE MUSEUM OF NATURAL HISTORY (3)**

Features nature's treasures in realistic settings opened in 1972. Hall of Mammals, Hall of Shells, Hall of Birds. \$2. admission. Located 30 minute drive from University on State Route 52 north of Wilmington, Del.

**HAGLEY MUSEUM**

A nineteenth century mansion in Wilmington, Delaware. Admission \$2.50. Open 9:30 a.m. - 4:00 p.m. with network of paths and restored thicket where the DuPont models of early more. "Eleutheria" DuPont built in generations. Eleutheria won't forget.

**WINTERTHUR (5)**

Magnificent mansion on Route 52 north from University. through natured Henry Francis DuPont decorative arts great country house architecture, furniture, ceramics, painting

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**BEST SURROUNDING THE  
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**OF NATURAL HISTORY (3)**  
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 mission. Located 30 minute  
 on State Route 52 north of

**HAGLEY MUSEUM (4)**

A nineteenth-century industrial community in Wilmington, Del. 25 minute drive from University. Admission \$2.50. Open Tuesday through Saturday 9:30 a.m. - 4:30 p.m., Sundays 1-5 p.m. Two hundred wooded acres on the Brandywine. The mills with network of buildings and gardens has preserved and restored the site of the original powder works where the DuPont Co. began in 1802. Working models of early powder, textile and flour mills, plus more. "Eleutherian Mills" - the home of E. I. DuPont built in 1803 reflects the tastes of five generations. Elegant in every way. An experience you won't forget.

**WINTERTHUR (5)**

Magnificent informal gardens located on State Route 52 north of Wilmington - 30 minute drive from University. Cafeteria available. Beautiful walks through natured woodland with abundant flora. The Henry Francis DuPont Museum contains American decorative arts spanning two hundred years. In a great country house are examples of domestic architecture, furniture, textiles, silver, pewter, ceramics, paintings and prints shown in almost 200

period rooms and special displays. Guided tour. One half shown in morning, other half shown in afternoon - \$6 per person for each half day. For appointment write or phone Winterthur Museum, Winterthur, Del. 19735. Phone (302) 656-8591. Send no money until date is confirmed.

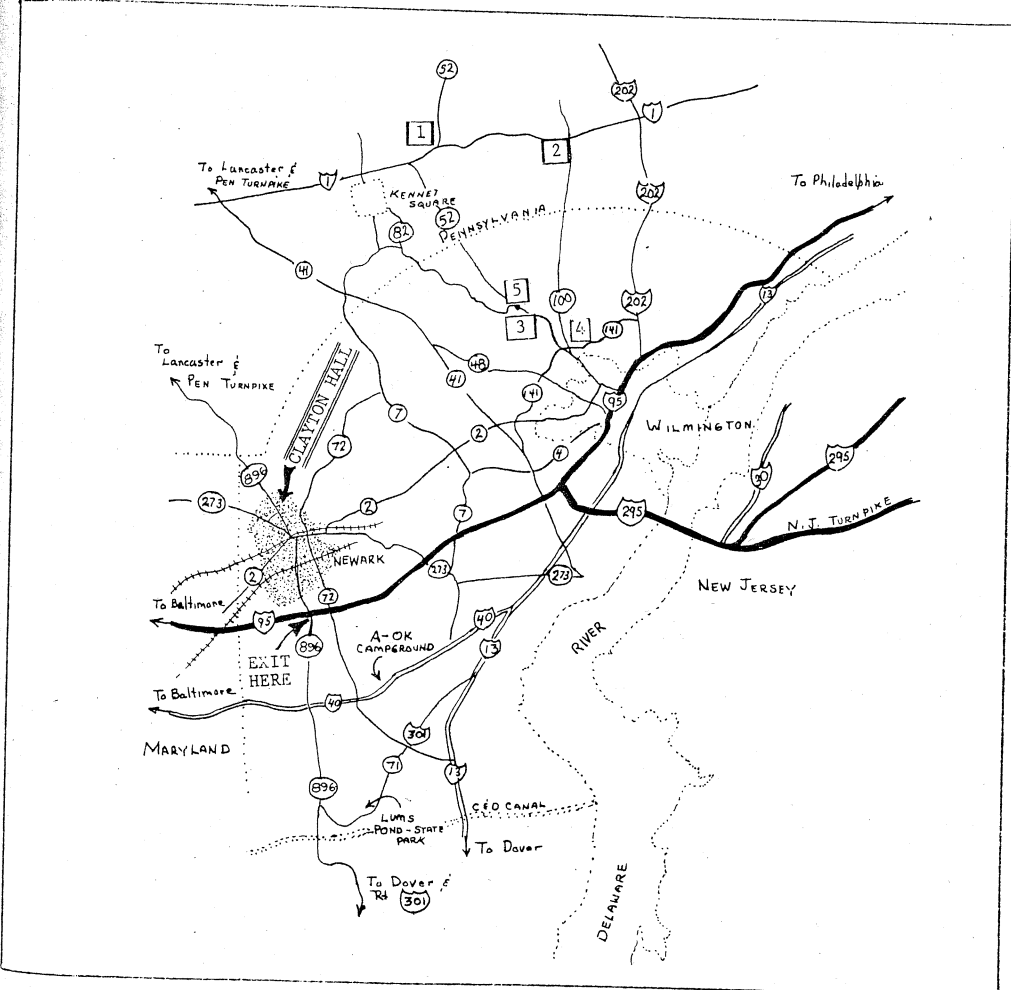
**THE FRANKLIN MINT**

An outstanding private mint which in six years has become the largest in the world. Located on US 1 between Wilmington Del. and Philadelphia, Pa. 1 hour drive from University. New technology. New standards of excellence for coined products. More than 300,000 people are Franklin Mint Collectors. Free admission. A nice stop-over point to or from Philadelphia - use US 1 instead of I-95. (note: a movie of the mint operation will be featured at the Ladies Luncheon - but the husbands as well as the wives may want to see the real thing.)

**VALLEY FORGE** of historic familiarity to all is located 1 1/2 hours drive Northeast of Wilmington.

**LANCASTER, PA.** heart of the Amish Country is located 1 hour drive Northwest of Wilmington.

**GETTYSBURG, PA.** of Civil War fame is located 2 hours drive from Wilmington.



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## RECORD OF A STRANGE PHENOMENON

When, after about 45 years of beekeeping a strange phenomenon occurs in an apiary, the record of it may become beneficial. I keep an intermittent diary of hive activity and I attempt to treat all hives in identical manner. The following anecdote concerns one hive.

March 15, 1976 - Rotated entrance reducers to mid-opening to allow more egress.

March 24, 2:15 P.M. - Temp. 65 degrees F. Removed fibreglass insulation but replaced black tar paper. Removed top insulation and black winter covers. Replaced with white summer covers. Hive appears to have wintered in exceptionally good condition. Pale yellow pollen being collected. Put on supers from storage with capped and partially capped cells for spring food. Scratched capped surfaces to lure bees up.

April 12 - Temp. 32 degrees F. in shade at 1:00 p.m. Bees collecting water from bird bath. Ice floating in bird bath.

April 13 - Temp. 47 degrees in shade at 10:00 a.m. Temp in sun 62 degrees F. Cool SWW wind. Hundreds of bees collecting cold water at bird bath. Under such conditions I am firmly convinced that this water is NOT being collected to cool the hive as some believe. I believe it is brought in to humidify the hive interior as an aid in keeping the larvae skin elastic and flexible to accommodate the tremendous growth during the larval stages and possibly to dissolve granulated honey for consumption.

April 19 - reversed brood chambers and added shallow supers. Removed entrance reducers and put on mouse guard.

April 27 - Temp. 56 degrees F. at 2:00 p.m. Hundreds of bees at bird bath collecting water.

May 15 -- noticed several dead, adult, normal-looking bees in a cleft of the ledge and about a yard in front of the hive. Also noted what appeared to be robbing in progress. On closer inspection there was a cluster of bees blocking the hive entrance from several HAIRLESS bees that were trying to enter the hive. Many of the normal appearing bees were in combat and tumbling with the HAIRLESS bees on the alighting board. I killed scores of the HAIRLESS bees with my finger as they settled on the hive stand. I do not recall seeing any HAIRLESS bees leave the hive nor do I recall seeing any dead HAIRLESS bees among the dead and dying bees in the cleft of the ledge.

This hive was partly shaded so I removed the brush from around and above the hive.

These agile, HAIRLESS bees appeared to be smaller than our ordinary worker bees. They had no dark bands across the top of their abdomens which terminated dark. The thorax was a shiny black and the insect, except for its size might have almost been mistaken for a queen.

June 8 - by this time the cleft in the ledge

contained thousands of dead and dying normal-looking bees. Combat was still in progress before the hive entrance. In desperation I made an entrance guard similar to a mouse guard except that the screen was of copper window screening with an entrance 3/8 of an inch high and 2 1/2 inches long to provide ventilation as well as restriction.

July 16 - HAIRLESS bees still attempting to enter the hive. I should mention here that no other hive in the apiary was affected in this manner.

On hearing Walter C. Rothenbuhler, Hambleton 1976 award recipient at EAS at Blacksburg, Va., requeening was recommended in order to save the hive.

On returning home after the EAS Conference, I examined the hive and found the top brood chamber ten frames loaded with sealed honey. Progressing to the lower brood chamber, the four outer frames were likewise filled with sealed honey. I did not locate the queen but there was ample worker brood in all stages to justify her presence. I attempted to introduce a queen which I found dead the next day. It was not getting too late to introduce queens anyway. Very little, if any surplus was harvested from this hive.

Sept. - no sign of HAIRLESS bees. They have appeared to be exceptionally strong and normal when being treated with antibiotics.

Nov. 10 - wrapped hive for winter.

Winter 1976-77, prolonged spell of very cold temperatures. No January thaw.

Feb. 4, 1977 - Temp. 34 degrees F. in shade at noon. Hive appears to be normal. Like other hives there were several bees at the entrance which faces south to the sun.

My diagnosis of the hive is as follows: it was an affliction to adult bees in only that hive. The bees' abdomens were not distended. The weather temperature was conducive to flying for cleansing flights & combs were not stained with excrement. I therefore doubt that diarrhea was the cause of so many dead bees. I think they expired because of old age and the HAIRLESS bees had nothing to do with their demise, and the collection of dead bees in the cleft of the ledge was perhaps more conspicuous than those ordinarily spread out in the field.

The dead bees had none of the discernable dark and greasy features of paralysis. Years ago I had observed an obviously paralytic queen walking unsteadily away from a hive. Five minutes after picking her up and replacing her in the hive where her claws could no longer grip the cells, she was out again and slowly crawling away from the hive and sick bees within which succumbed.

As for the HAIRLESS bees, I believe they had been deprived of exposure to beneficial direct rays of the sun by the shading by the brush when in the larval stage. This lack of exposure may have caused

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**REGISTRATION FORM  
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Newark, Delaware 19711**

NAME (please print) \_\_\_\_\_ Home Phone \_\_\_\_\_

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Please indicate the following: Arriving \_\_\_\_\_ Departing \_\_\_\_\_

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Registration fees (\$12.00 per person) \$ \_\_\_\_\_

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I want a roommate ( ) Yes ( ) No Who \_\_\_\_\_

Meals at \$44.00 per person \$ \_\_\_\_\_

Persons for the Conference (CAMPERS) Registration Fee \$ \_\_\_\_\_

Persons for the conference (COMMUTER) Registration Fee \$ \_\_\_\_\_

( \_\_\_\_\_ persons under 12 years of age)

TOTAL \$ \_\_\_\_\_

**MAKE CHECKS PAYABLE TO EAS 77 CONFERENCE**

Advance registration deadline is August 3, 1977.

Deadline for advance registration is Wednesday, August 3. Advance registration fee is \$12. per person. After August 3, the registration fee is \$16. per person for the conference or \$5. per day. If you pay in advance (by August 3), your registration materials, including room key, will be ready and waiting for you at the John M. Clayton Hall Registration Desk. Make all checks payable to EAS 77 Conference.

an abnormality resulting in the HAIRLESS syndrome. These HAIRLESS bees were not robbers. They belonged to that hive. That is why they were trying to get in, but they were being rejected by the normal bees of that hive.

GEORGE O. RIGBY  
Feb. 6, 1977

### Information on ETO

Homer "Pat" Powers, State Apiarist for the Commonwealth of Virginia, informs us that Ethylene Oxide for fumigating bee equipment has federal registration. As of March 12, 1977, the 90-day waiting period ends for Virginia. In addition, as of March 21, 1977, New Jersey has State Registration for the use of Ethylene Oxide to fumigate bee equipment. This 24-C Registration is for non-food use; therefore, no honey will be allowed to go through the E.T.O. Chamber. Both Pat and I urge other States to get State 24-C Registration or special Local Needs Registration.

J.C. Matthenius, Jr.  
Editor

### Beekeeping Course Materials Still Available

The Ohio State University, Cooperative Extension Service announces they still have a few packages of the materials from the Correspondence Course in Beekeeping that was so popular in 1976. They are offering these materials to anyone interested (contains some mimeos instead of originals, but the information is all there) at the reduced rate of only \$10.00 each. Groups and organizations are invited to inquire as to the possible further reductions for groups of 10 or more people. First come, first serve.

Send orders and/or inquiries to: Jennifer Groce, Bee Materials, 1735 Neil Avenue, Rm. 85, Columbus, Ohio 43210.

Answer keys to all quizzes are included for your own self-study and the six lessons include:

1. Honeybees and You
2. Biology and Behavior of Honeybees
3. Beekeeping Equipment
4. Honeybee Colony Management
5. Pollination and Bee Flora
6. Diseases, Pests and Pesticides as They Affect Bees.

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**Summer Beekeeping Short Course  
Scheduled at  
Delaware Valley College**



Jack Matthenius, N.J. Supervisor of Bee Culture discussing bees during Spring Short Course.

Delaware Valley College, Doylestown, Pa. will be offering a three-day beekeeping short course this summer. The course will be held beginning on Wednesday, June 22nd, and continuing through

Friday, June 24th, 1977. Hours will be 9:00 A.M. to 4:00 P.M. each day.

Over 100 people attended the Spring short course this year, which gives some indication of the popularity of the course. The program is designed to benefit the experienced beekeeper as well as providing enough information and experience to enable someone to get started in beekeeping.

The course, under the direction of Dr. Robert Berthold (Associate Professor of Biology), in cooperation with Mr. Jack Matthenius (New Jersey Supervisor of Bee Culture).

Some of the topics to be covered are: Honey Bee Ecology, Starting with Bees, Beekeeping Equipment, Colony Management, Swarm and Package Establishment, Queen Rearing, Bee Diseases, and Honey Processing and Sales. Most topics covered in discussion will also be observed and/or practiced at the College Apiary and Honey House.

Total cost for the three days of instruction is \$18.00. (this does not include meals or lodging).

An application for this course or further information may be obtained by writing Dr. Robert Berthold, c/o Delaware Valley College, Doylestown, Pa. 18901, or calling him at area code 215-345-1500.

**INVITATION TO TRAVEL TO-AND PARTICIPATE IN "APIMONDIA"  
THE XXVI INTERNATIONAL CONGRESS OF APICULTURE**

The above will be held in Adelaide, South Australia, October 13-19, 1977.

UNIVERSITY TRAVEL COMPANY of Cambridge, Mass. is offering in cooperation with the Eastern Apicultural Society of North America, travel plans providing the most economical way of traveling to the Congress and best-suited accommodations.

TRIP "A" - October 10-October 20, '77 - Being based on so-called "Affinity Group" air rates, this is open only to the membership of E.A.S. and their immediate families. The cost of U.S. dollars \$967.00 covers air transportation, economy class, from San Francisco to Adelaide and back to San Francisco, transfer to hotel in Adelaide and Brunch in Sydney Airport Restaurant.

UNIVERSITY TRAVEL COMPANY will be glad to reserve accommodations in Adelaide blocked by the Organizing Committee of the Congress. The cost per night is \$20.00, sharing a twin room or \$34.00 per night single, in first class city hotels and motels. In standard-class city hotels and motels, rates would be \$15.00 in a twin or \$23.00 in a single. All above accommodations are in rooms with private facilities. THE ABOVE COST IS BASED ON PARTICIPATION OF MINIMUM OF 15 PERSONS.

TRIP "B" - Oct. 10 thru Oct. 30 - Participation

in this trip does not require membership in an organization. The itinerary for the period Monday, October 10 thru Wednesday, October 19 is identical with the itinerary of Trip "A", but a special land and motorcoach trip through three States and Australian Capital Territory is included in TRIP "B's" itinerary. THE ALL-INCLUSIVE COST OF \$1,320.00.

(This cost is based on participation of the minimum of 10 persons,) provides for economy class air transportation, SAN FRANCISCO-ADELAIDE and back from SYDNEY to SAN FRANCISCO, hotel accommodations in twin rooms with private bath at standard class, city hotels in ADELAIDE for 8 nights, cost of motorcoach from ADELAIDE to SYDNEY, cost of accommodations on the Post Congress Tour, October 20 thru October 30.

Supplement for twin accommodations in ADELAIDE in first-class hotels - \$50. per person

Supplement for single accommodations in ADELAIDE in standard-class hotels - \$80.00

Supplement for single accommodations in ADELAIDE in first-class hotels - \$130.00

FOR COMPLETE INFORMATION, itinerary and application form, WRITE TO: UNIVERSITY TRAVEL COMPANY, INC., Congress Department, 44 Brattle Street, Cambridge, Massachusetts 02138.

**General Ru**

1. All entrants, w  
Conference, must be r  
the registration fee  
Society.

2. Only one entry  
an individual family.

3. Identifying labr

4. Entries can be  
.9 p.m. and Thursday 1

**GAD**

Prize ribbons will  
winners in each class.

Class 1 - Large de  
rendering equipment, e

Class 2 - Hives or  
etc.)

Class 3 - Small mi

Class 4 - competit

All entries must b  
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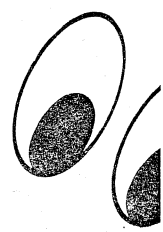
Scoring Objectives:

1. Explanatory test . . .

2. Practicality . . . . .

3. Ease of reproduction

4. Help to beekeeping



EXTR

S

## General Rules for All Shows

1. All entrants, whether or not they attend the Conference, must be registered with and have paid the registration fee to the Eastern Agricultural Society.
2. Only one entry in each class may be made by an individual family.
3. Identifying labels on entries are forbidden.
4. Entries can be registered Wednesday night 8-9 p.m. and Thursday morning 8 to 9:30 a.m.

### GADGET SHOW

Prize ribbons will be awarded to the top six winners in each class.

Class 1 - Large devices (honey extractors, wax-rendering equipment, etc.)

Class 2 - Hives or machines (lifters, weighers, etc.)

Class 3 - Small miscellaneous items.

Class 4 - competitive exhibit (no prize).

All entries must be accompanied by a typed or written explanation. This is to be used in scoring by the judges.

Scoring Objectives:	Maximum Pts.
1. Explanatory test .....	25
2. Practicality .....	50
3. Ease of reproduction .....	15
4. Help to beekeeping .....	10
	Total 100

### BEESWAX SHOW

Prize ribbons will be awarded to the top six winners in each class.

Class 1 - Single piece, pure Beeswax, 1 lb. or more.

Class 2 - Candles, dipped, one pair, pure Beeswax.

Class 3 - Candles, molded, one pair, pure Beeswax.

Class 4 - Candles, fancy, one pair, pure Beeswax.

Class 5 - Candles, novelty, six assorted, containing Beeswax.

Class 6 - Novelty, Beeswax with additives permitted.

#### Special rules:

1. All entries in Class 1 must be covered with clean, transparent plastic film.

2. All entries in Class 5 must contain some Beeswax. Entries in this class are for colored and novel-shaped candles.

3. All entries must have been made by the exhibitor.

Scoring Objectives:	Maximum Pts.
1. Cleanliness .....	35
2. Color and aroma .....	30
3. Uniformity of appearance .....	20
4. Absence of cracks and shrinkage .....	15
	Total 100

Hours will be 9:00 A.M. to

attended the Spring short gives some indication of the program is designed to of beekeeper as well as ration and experience to orted in beekeeping.

he direction of Dr. Robert rofessor of Biology), in k Matthenius (New Jersey ).

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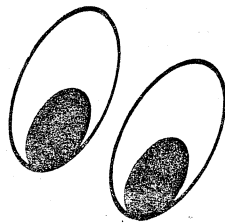
## INDIA" RE

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twin accomodations in tels - \$50. per person ngle accomodations in ss hotels - \$80.00 ngle accomodations in tels - \$130.00

ORMATION, itinerary and TO: UNIVERSITY TRAVEL s Department, 44 Brattle husetts 02138.



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### HONEY SHOW

Prize ribbons will be awarded to the top six winners in each class.

Class 1\* - Three 1-lb. jars of Honey, Extracted, Water White.

Class 2\* - Three 1-lb. jars of Honey, Extracted, Light.

Class 3\* - Three 1-lb. jars of Honey, Extracted, Light Amber.

Class 4\* - Three 1-lb. jars of Honey, Extracted, Amber.

Class 5\* - Three 1-lb. jars of Honey, Extracted, Dark.

Class 6 - Three section boxes of Comb Honey, Light.

Class 7 - Three section boxes of Comb Honey, Dark.

Class 8 - Three packages of Cut Comb Honey.

Class 9 - Three 16-oz. jars of Finely Granulated Honey.

Class 10 - Three 16-oz. jars of Chunk Honey.

Class 11 - One shallow super frame of Cut Comb Honey.

Class 12 - One shallow super frame of Extracting Honey.

Class 13 - One full-depth frame of Honey.

Class 14 - Three identical novel shape, Honey filled containers.

Class 15 - One novelty gift box of packaged Honey.

Class 16 - One shadow box or Niche Display of Honey related subject.

#### Special Rules:

1. Entries in Classes 12, 13 and 14 must be displayed in bee-proof cases having both sides made of transparent glass or plastic.

2. Entries in Classes 7 and 8 must be in window cartons or wrapped individually in transparent plastic.

3. Colors of Honey in Classes 1 thru 7 will be determined by the official grading committee.

4. All entries must be the product of the entrant's apiary and have been produced during the period August 1975 to August 1976.

5. Entries in Classes 1 thru 5 (marked \*) must be in Queen Line type glass jars.

#### Scoring Objectives:

	Maximum Pts.
1. Density (water content above 18.6 disqualified) . . . . .	20
2. Absence of crystals . . . . .	10
3. Cleanliness:	
a. Without lint (7)	
b. Without dirt (10)	
c. Without wax (7)	
d. Without foam (6) . . . . .	30
4. Flavor	
(Pointers will be reduced on OFF FLAVOR HONEY)	
5. Container appearance	
Clean and in good condition . . . . .	10
	Total 100

### MEAD SHOW

Prize ribbons will be awarded to the top six winners in each class.

Class 1 - Mead, Dry.

Class 2 - Mead, Sweet.

Class 3 - Mead made with fruit juices.

Class 4 - Mead, Sparkling, made with or without fruit juices.

#### Scoring Objectives:

	Maximum Pts.
1. Clarity . . . . .	20
2. Color . . . . .	10
3. Taste . . . . .	20
4. Body . . . . .	10
5. Bouquet . . . . .	20
6. Bottle . . . . .	10
7. Bottle Closure . . . . .	10
	Total 100

### HONEY COOKING SHOW (Non-Professional)

Prize ribbons will be awarded to the top six winners in each class.

Class 1 - Cookies, Crisp - 1 dozen.

Class 2 - Cookies, Soft - 1 dozen

Class 3 - Bars or Brownies - 1 dozen

Class 4A - Cake, Unfrosted - 1 cake

Class 4 B - Cake, Frosted - 1 cake

Class 5 - Yeast Bread - 1 loaf

Class 6 - Yeast Bread, Fancy - 1 loaf

Class 7 - Yeast Rolls - 1 dozen

Class 8 - Quick Bread (fruit or nuts optional) - 1 loaf

Class 9 - Muffins (fruit or nuts optional) - 1 dozen

Class 10 - Candy - ½ lb. or 12 pieces

Class 11 - Pie (rules apply to filling) - 1 pie

#### Special Rules:

1. Entries must be accompanied by the recipe as used, written on 3"x5" cards in triplicate.

2. At least 25% of the sweetening used must be Honey.

3. No "mix" or prepared sweetened cereal is to be used.

4. Entries will be exhibited as received. Plates will not be furnished by the show committee.

5. Pie crust will be judged on appearance - i.e., not burned or broken up, etc.

#### A. Baked Goods

##### Scoring Objectives:

	Maximum Pts.
1. General appearance . . . . .	20
2. Flavor . . . . .	35
3. Texture, grain, moisture, uniformity of color . . . . .	30
4. Lightness . . . . .	15
	Total 100

#### B. Candy

##### Scoring Objectives:

	Maximum Pts.
1. Attractive appearance . . . . .	20
2. Flavor . . . . .	35
3. Texture . . . . .	25
4. Handling quality in serving . . . . .	20
	Total 100

P.O. Box 305

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Best wishes

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Total	100

Maximum Pts.	
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Total	100

# Parowan Honey Company, Inc.

P.O. Box 305

Phone 477-8902

Parowan, Utah 84761

Spring, 1977

Dear Beekeeper,

Just a short note to thank you for your past support, and to tell you about a few new developments at Parowan Honey.

We have been highly pleased with the reception of our uncappers, extractors and the other associated equipment. We sincerely appreciate the feedback information from you, which has enabled us to continually make improvements in our equipment. Our MINI UNCAPPER, for example, has been given a recent "face lift". It now comes with a slip clutch, as well as a reversing switch. For you owners of the earlier model MINI, kits are now available to add these improvements easily to your machine. Incidentally, don't let the name "MINI" fool you, at 6-1/2 deep combs per minute, it has the capacity to uncapp over 300 supers in an 8 hour day.

We have also made improvements in our big 216 frame SELF-LOADING EXTRACTOR. It now comes with a self-advancing speed control and disc brakes. The bottom of the stainless steel tank is now tapered to allow faster flow-out of honey, and the comb lock-in device has been improved.

Our hot-top CAPPINGS MELTERS have been receiving a lot of attention lately, especially overseas. This is the melter that uses radiant heat to melt the cappings which float on the surface of the honey. This type of melter greatly reduces the need for heating (and overheating) your melter honey.

The 78 frame RADIAL EXTRACTOR we introduced last year continues to be the most sturdily built radial on the market. We haven't skimped on the stainless steel at all. It is still made of full 18 gauge. Check for yourself the next time you see one. Press your knee against the side of the extractor just as you would when your are loading or unloading. Then you will see why we are so proud of it.

We have just received from our printer a new leaflet that shows and describes our whole line (except for our brand new 24 Frame RADIAL). If you don't have a copy of it yet, please drop us a note. We would be only too happy to send one along to you.

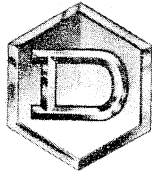
Best wishes for a successful season.

John Cowen

Parowan Honey Co., Inc.

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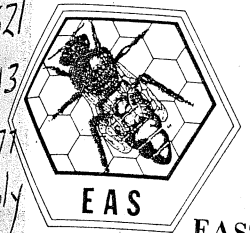
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