

EAS JOURNAL

Founded 1973

EASTERN APICULTURAL SOCIETY OF NORTH AMERICA, INC.

Vol. 7

No. 3

June 1979

A Great Opportunity for You and Your Family...

There's Help for You...

...if bees are your business or your pleasure. The Eastern Apicultural Society of North America is ready to assist you.

Its chief aim is to promote the art and science of beekeeping among hobbyists and professionals alike. This it does during the year by sending a 12 page news and "how to do it" magazine to its members every other month. The E.A.S. Journal carries accounts of the organization's activities and announcements about the annual conference, the speakers for it, and their topics.

THEN ONCE A YEAR...

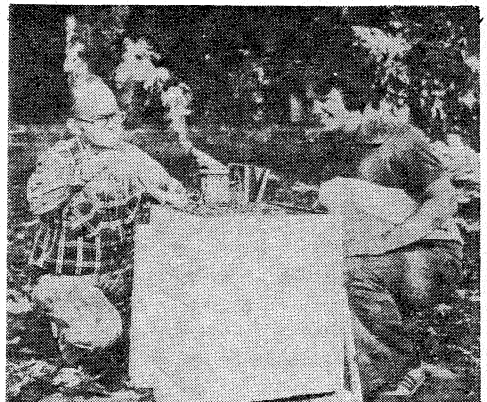
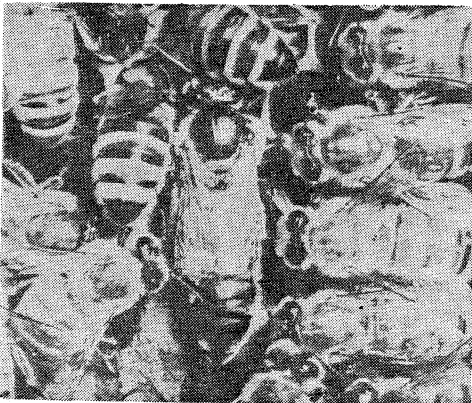
...on a college campus in the Eastern United States or Canada, the Society holds its conference, bringing together the entire region's apicultural experts. That annual get-together is held the second week in August, starting on Wednesday and ending on Saturday.

At the various sessions, authorities discuss topics on beekeeping, exhibits are arranged on beekeeping equipment and products, and tours are made of local centers of interest.

If the society's membership and leading apiculturists do not have an answer to a question, they will refer you to those that do. Most states and provinces have bee inspectors, extension personnel and a college-based apiculturist. Many offer literature on beekeeping in their geographical area.

CALLING ON YOU...

...The Eastern Apicultural Society of North America invites you to become part of its family and to attend the next annual conference. Membership costs are nominal.



EAS JOURNAL

The official publication of Eastern Apicultural Society of North America Inc. published 6 times yearly at Litchfield Conn. 06759.

E.A.S. Journal \$2.00. Membership in EAS. Single \$3.00, Couple \$4.00, Family \$6.00. Commercial Membership \$50.00. Beekeeper Assoc. \$25.00. Individual Life Membership \$100.00. Membership will include a subscription to the Journal.

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Editorial

This month is the start to get ready for the upcoming E.A.S. conference on August 8-11, 1979. Mark these dates on your calendar as your summer vacation. The deadline is July 15, 1979. Fill the application out now and send it to either of the addresses given.

You are urged to attend this conference as it is the 25th anniversary and part of the program will concern itself with this topic.

Very welcome will be those who would join the Life Membership group at \$100.00 each. Your name is read and a membership card is awarded as a feature of the banquet program. This fund supports the J. I. Hambleton Awards for Scientific Research.

Member Assns. can add to the program this year by a show of published news letters, which is a first for this 25th year celebration.

P.J. Hewitt Jr.
Editor

Credit References

"CREDIT REFERENCE" some information was regretably left out of the EAS Journal April 1979: page 3, "Comb Foundation," Clarence H. Collison, Penn. State Univ., page 8, "Skunks," Clarence H. Collison, page 8, "Japanese Bamboo," Elbert J. Jaycox, Univ., Ill. Page 9 - 10 "Comment," "Name That Honey," "Quebec Moves on Fumagation Report," copy from "Canadian Beekeeping," Vol. 7, No. 9. 1979.

EAS Journal:

Advertisements and material for publication should be received by the 15th of the month previous to publication; Feb., April, June, July, October, December.



Parliament Building, Ottawa, Canada. A tourist attraction for visitors to Ottawa.
Photo, Alphonse Avitabile.

Attention—A New Event For EAS Convention

All state assn. members who publish *News Letters* are asked to present copies for showing during the convention Aug. 8-11, 1979 at Carleton University Ottawa. If this makes a good showing it is hoped that a

yearly contest can be made for coming conventions.

A separate show class for points and ribbons can be added to our convention shows.

P.J. Hewitt, Editor

Convention Press Release

The twenty-fifth annual convention of the Eastern Apicultural Society of North America will be held August 8-11 in Ottawa, Ontario, Canada. Carleton University will be the scene for the events of the convention. With a modern sprawling campus in the suburbs of the city, it boasts all the required modern facilities, along with ample comfortable residence accommodations. Prices for the accommodations have been set low enough to tempt conventioners to stay on after the convention and vacation in the area-- and a more attractive setting for just that could hardly have been chosen. Ottawa is a city of less than half a million people and as the capital city of Canada, it has virtually none of the ills that generally plague larger and more industrialized cities.

Often referred to as "beautiful at any time," Ottawa has miles of open parkland surrounding the core that lends itself to comfortable strolls along historically famous canals and rivers. Those interested in shopping can be well accommodated in just about every region of the city, while occasional fairs as well as permanent shops feature typical Canadian and Eskimo crafts and art.

Night life is well served by the region, with many top-notch nightclubs and discos, and for those with a flair for gourmet meals, authentically prepared ethnic meals are featured by many of the region's restaurants and cafes.

The countryside, referred to as the Ottawa Valley, is a mixed farming area nestled along the Ottawa River and backed by the Gatineau hills. The Ottawa Valley abounds in varied recreational attractions that must necessarily appeal to everyone, be it a beach outing or a back pack trip along wilderness trails to unspoiled lakes and streams.

Not to be overlooked is the fact that Ottawa is only two hours from one of the continent's largest of French culture, Montreal, Quebec. A trip there certainly would promise an exciting cultural experience. Five hours from Ottawa in the opposite direction is Toronto, the heart of the Canadian business world.

All in all, this convention could promise not only a fine learning experience, but a unique and exciting vacation as well.

R. J. Grant

Only a Queen!

My Father gave me a hive of bees.
They dwindled and died, to my dismay,
from loss of queen, and not disease.
They'd cost him more than a load of hay.
I'd wanted them for themselves and honey;
at ten I wasn't concerned with money.

I asked my Father why the queen
was so important to the hive,
then wondered what my Sire could mean:
"The queen must keep the hive alive."
Said he, "It's natural of the wild--
only a queen can bear a child.

"Her suitor is a bumbling drone"--
that was a thought I'd not forseen--
"She can't have children all alone?"
"A mother must be born a queen,
but for a queen to be a mother,
she must find favor with another."

I'd know of bees and hive and sweets,
but how one queen and one sad drone
combine to give us these rare treats

was Nature's secret I'd not known.
I'd always thought that all the bees
rocked little bees upon their knees.

Two Hives

Two hives of bees stand side by side
Both forage on my pastures wide.
In strength though they are much the same
one puts the other quite to shame;
the one stores surplus nectar sweet
for self, and me as honey treat.
The other eats all it brings in;
its surplus stores are very thin.
When winter comes it may well die
unless we help its food supply

Should I take from the industrious hive
to keep the sluggish one alive?

Both poems from
Catskill Mountain Views by
Grant D. Morse

Beekeeper Activity

BEEKEEPER ACTIVITY: Room is a key issue for bees and beekeepers in May. A delicate balancing act on the beekeeper's part will keep the bees supplied with food and supers before the swarming impulse begins. Other swarm control measures can also be implemented from the classic Demaree method to cutting swarm cells, my least favorite and one I avoid at all costs.

Judiciously adding supers is an important part of the beekeeper's act. Some add one at a time as needed, while others put on extras since they make fewer trips to their outyards. Recent research in Louisiana indicates it's better to add several supers at one time--contradicting the idea that bees are "demoralized" if too many are added at once. Each beekeeper must make his own decision here and correlate it with his other management.

A swarm from one's apiary in May isn't worth a "bale of hay," unless caught. Bait (empty) hives are popular in some areas--the odor attracts the swarm. And there's evidence that swarms can be attracted and will land close to beeswax pellets impregnated with citral (a component of the orientation scent). Unfortunately, this substance is not readily available. It remains for some beekeepers to develop a way to collect citral from the bees. Remember--very little is probably enough. Finally, all beekeepers can and should submit their names to the many public agencies (police and fire) always getting "swarm calls" this time of year. It costs very little, and will pay great rewards in public relations."

**E.A.S. Conference -
Ottawa, Canada
Carleton University**

BUS TRIP

August 8, 9, 10 & 11

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**FIRST COME,
FIRST SERVED BASIS**

Go Where It Is!

This little article is intended primarily for those who are young. Who is young? Anyone under forty - provided he or she is youthful in spirit.

Do you intend to earn a living from beekeeping? I'm talking about a living, not about the romance of beekeeping. I know you like bees and would rather work with them than with anything else. But are you in an area where bees make enough to yield you a good income? If not, what should you do? There's just one correct answer to that question: Go where it is! The States that usually yield the most honey are California, followed by Minnesota and Florida. One year in Florida I saw the bees building comb outside of the hives and storing honey there. The beekeepers had no more supers and couldn't extract fast enough to keep up with the bees. In some other States the source may be alfalfa or clovers, or some other. I was born in the Catskill Mts. of New York State. At that time nearly everyone had one or more hives of bees. They hived the swarms they found. Wild thyme yielded from July first until frost in September or October. It wasn't a very delicately flavored honey but it was plentiful. My recommendation to all young men who want to succeed in beekeeping: Get yourself into a land of honey. Don't be bound down by a foolish colloquial geographical sentimentality. Go where it is!

Grant D. Morse

“Apiculture and Science Research”

By
Dewey M. Caron
University of Maryland
EAS - Research Committee Chairman

One of the permanent EAS Executive Board Committees is the Research Committee. The first chairman of the Board of EAS, Jack Matthenius has charged this committee with the major responsibility of keeping EAS members aware of research activities within the EAS states and provinces. Therefore, we launch this regular contribution to the EAS JOURNAL. We will feature short reviews of scientific articles published by EAS scientists and beekeepers, updates on ongoing research in the EAS area and other news we hope you might be interested in hearing. We welcome any suggestions or comments you might have. Please send them to your Executive Board member or Research Committee Members: CARON (MD.), MASON (DEL.), or THOMPSON (OH.)

NEW EAS AWARD FOR APICULTURE STUDENTS

At the October Directors meeting, the Research Committee presented a proposal for a new EAS award. Beginning with the 1979 meeting (our 25th anniversary), EAS will recognize an outstanding apiculture student at the annual meeting. There will be a suitable plaque and a \$100 cash award.

EASTERN BRANCH ENTOMOLOGICAL MEETINGS

The professional Entomological Branch (for all but Ohio and North Carolina EAS Apiculturists) held their 75th Anniversary meeting in New York in September. Apiculture presentations included a paper by Richard Fell, a Ph. D. student at Cornell. Fell reported that in his studies of queen cell production is queenless units, the majority of queen cells were constructed in the first several days of queenlessness with a reduction in cell initiation after queen cells are capped. Fell suggested a chemical, produced by the capped queen cell, may be responsible for the inhibition of further cell building.

Edwin Rojette, a Ph.D. student and Rad

Roberts of Rutgers presented two papers. Ed demonstrated how 3 blueberry cultivars differed in their attraction to bees. Where honey bees and bumble plus other wild bees coexist along with the 3 blueberry cultivars, the foraging patterns of the bees were complementary, helping to insure adequate pollination. Dr. Roberts reported on the variability in nectar production by American linden trees (*Tilia americana*). Linden flowers produced 6 mg of nectar when insects were excluded. Sugar content varied by a factor of 10. One tree of 3 foot trunk diameter had 3.3 million flowers in 1977 but almost none in 1978.

Two basic (non-applied) papers at the meeting were on bees. George Eickwort of Cornell illustrated how behavior of bees can be used to identify and tell different species apart. Dewey Caron, Maryland, reported on how an artificial sugar-water-“flower” is useful in measuring foraging responses to various components of flower nectars.

Abstracts of these papers will be published in the December issue of the JOURNAL of the New York Entomological Society.

NEW APICULTURE POSITION

VPI & SU (Virginia Polytechnic Institute & State University) at Blacksburg, VA. interviewed several candidates, including some EAS graduate students for a new Apiculture position. They selected Richard Fell to fill the new bee specialist position. Dr. Fell will teach beekeeping courses both on and off the VPI campus. The VPI position is a special one created by the Dean of Agriculture and means a replacement for John Amos who retired several years ago.

Virginia has one of the largest beekeeping populations in the EAS territory and some major bee pollinated crops like apple and cucumber. There are increasing numbers of hobbyists. One hobbyist group, the Northern Virginia Beekeepers Association of the Washington, D.C. suburbs and a second group in the tidewater area offer beekeeping short courses. The new VPI position is a

Continued on page 7

Apiculture and Science Research continued

most welcome addition to EAS apiculturist positions and promises new opportunities for education and teaching of beekeepers in EAS.

HOW BEES DETECT MAGNETIC FIELDS

Honey bees can detect magnetic fields, something humans are unable to do. Biologist Jim Gould and 2 geologists from Princeton have recently discovered how bees might be able to detect magnetism. They found that worker bees and older pupae have specially oriented magnetic crystals in the fore part of the abdomen.

What do bees use their magnetic detection ability for? We do not know and these find-

ings at Princeton only show that bees possess a magnetic substance. Since bee dances are constantly off a slight "error" that can be "corrected" by magnetic field elimination, it seems conceivable that bees can use magnetic north for orientation on cloudy days or as a backup for their sun compass. We suspect they orient their combs in the "natural" nest site relative to magnetic fields but again lack a reason for them to do so. Now that Gould and his Princeton colleagues have discovered the how, we may be able to ask and answer some of the whys.

Gould, J.L., J.L. Kirschumk & K.S. Defeyes. 1978. Bees have magnetic remanence. *Science* 201:1026-1028.

Eastern Apicultural Society Of North America, Inc. 25th Annual Conference

at Carleton University, Ottawa, Canada

August 8th to 11th, 1979

TENATIVE PROGRAM

WEDNESDAY, AUGUST 8th, 1979

- 1:30 - 4:30 Registration - Commons Foyer
- 5:00 - 6:30 Dinner - Purple Room, Commons Building
- 8:00 Entertainment - Commons Lounge
- 8:00 - 9:00 Delegates' Meeting - Small Theatre, R. 214
- 9:00 - 10:00 Directors' Meeting - Small Theatre, R. 214

THURSDAY, AUGUST 9th, 1979

- 7:30 - 9:00 Breakfast
 - 8:30 - 9:00 OPENING CEREMONIES
 - Call to order
 - Invocation -
 - Welcome
 - 9:00 - 10:00 Roberta Glatz
 - 9:15 & 10:00
 - 10:00 - 10:30 Coffee break
 - 10:30 - 11:30 Dr. H. Shimanuki
 - 11:30 - 12:00 John Root
- Purple Room
 - Commons Lounge
 - Ross Hopkins, EAS President
 - Mayor Dewar
 - President, Eastern Ontario Beekeepers' Association
 - Dr. Prentice, Agriculture Canada
 - chairs Women's Panel
 - Buses leave Glengarry House for Rideau Hall, residence of the Governor-General of Canada
 - chairs Panel Discussion - "Facing the future: Bee Disease and Government Policy" with Homer P. Powers, Jacob C. Matthenius, Jr. and Francois Beauchesne
 - "Anatomy of the Honeybee"

Continued on page 8

Conference Calendar continued

12:00 - 1:30 Lunch	- Purple Room
12:00 - 2:00 Ladies Luncheon	- Lucys, St. Patrick's College
	- a group of Capital Chordettes will serenade you and members of the Diplomatic Corps will model their national costumes
1:00 - 1:30 Mark Hopkins	- "Production & Transportation of Package Bees"
1:30 - 4:30 Workshops	
2:00 - 3:00 Professional Apiculturists	- Small Theatre R. 214
5:30 Cash Bar	Commons Lounge
6:30 Canadiana Dinner	Purple Room

FRIDAY, AUGUST 10, 1979

7:30 - 9:00 Breakfast	- Purple Room
8:30 - 9:00 Lorne Crozier	"Beekeeping in Nova Scotia"
9:00 - 9:30 Dr. McTaggart - Cowan	- "Weather changes and beekeeping"
9:30 - 10:00 Francois Beauchesne	- "Beekeeping in Quebec"
10:00 - 10:30 Coffee break	
10:30 - 11:00 Dr. Shuel	- "Canadian Pesticide Research"
11:00 - 12:00 EAS Annual General Meeting	
12:00 - 1:00 Lunch	-Purple Room
1:00 - 5:00 Visit to Termeer's Apiaries, Finch	
6:00 Cash bar	- Workshops
7:00 Banquet	- Commons Lounge
	- Purple Room

SATURDAY, AUGUST 11th, 1979

7:30 - 9:00 Breakfast	- Purple Room
8:30 - 9:00 Report from Beaverlodge Research Station, Alberta	
9:00 - 9:30 Dr. James H. Day	- "Bee venom allergies"
9:30 - 10:00 Dr. H.V. Morley	- Pesticides
10:00 - 10:30 Coffee break	
10:30 - 11:00 Hambelton Award Speaker	
11:00 - 11:30 Unconfirmed	
11:30 - 12:00 Unconfirmed	
12:00 - 1:30 Lunch	- Purple Room

What In The World Is EAS?

Don't feel bad, that is exactly what I said some four years ago, when I heard the name mentioned too. EAS is the largest hobbyist beekeeping organization on the EAST coast. It was organized in 1954 and comprises the following 16 States and Provinces of Canada:

Connecticut, Delaware, Kentucky, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Ontario, Pennsylvania, Quebec, Rhode Island, Vermont, Virginia, West

Virginia--THE EASTERN APICULTURAL SOCIETY OF NORTH AMERICA, INC.

Once a year, on a college campus in the Eastern U.S. or Canada, the Society holds its conference, bringing together the entire region's apicultural experts. The annual get-together is held usually the second week in August, starting on Wednesday and ending on Saturday.

At the various sessions, authorities discuss topics on beekeeping, Commercial exhibits

Continued on page 9

What in the World is EAS? - continued

are arranged on beekeeping equipment and products. There are honey and Beeswax Shows, Honey Cookery, Mead, Gadget Show, evening cookout, Awards banquet, and trips can be made to local centers of interest before or after the Conference.

The above states and provinces serve as Host states and rotate turns for having the Conferences in their state. New Jersey hosted in 1971; Connecticut in 1972; West Virginia in 1973; Ontario, Canada in 1974; Massachusetts in 1975; Virginia in 1976; Delaware in 1977 and Ohio in 1978. The coming EAS Conference will be held AUGUST 8 through 11, 1979 at the Carleton University, Ottawa, Canada when EAS will be celebrating its 25th. Anniversary.

Future conferences are as follows: August 13 - 16 1980, University of Vermont at Burlington; August 5 - 8, 1981, Rutgers University, New Brunswick, New Jersey and August 1982 at the University of West Virginia at Morgantown.

I was told by an EAS member, that once you attend one of the Conferences, that waiting for the next one to come, is like waiting for Santa Claus to arrive. I could not believe this, and thought she was exaggerating, until I attended my first one, four years ago. It is definitely contagious, just like she said, and now I am hooked too!

Such enthusiasm and excitement is generated prior to, and bubbles forth from the faithful followers at each of the Conferences. It is almost incredible! If by chance you missed attending the last Conference, you owe it to yourself to attend the upcoming one. Don't think you won't have any fun because you might not know anyone. None of us are strangers to each other when we are there. Everybody mixes in rather quickly and before you know it, you will feel right at home. The group then becomes one big and happy family.

You do not have to be an EAS member to be eligible to attend a Conference. Membership is automatically granted to each person at-

tending the full, 3-day Conference.

The EAS Journal is published bi-monthly, usually in February, April, June, July, October and December. The June and July Journals contain complete information concerning the next Conference. Phil Hewitt of Connecticut is the Editor of the Journal and Liz Rodrigues, EAS Secretary and Treasurer handles the advertisements.

Each of the above states and provinces are entitled to be represented by a Director who is elected for a term of four years at the Annual Business meeting held during the Conference. Directors should have the support of their state or province Association, and they cannot succeed themselves. The Officers, Past Presidents and Directors are the Governing Body of EAS. Beekeeping organizations that pay the \$25. annual dues are entitled to send a Delegate to represent them at the Delegate's Meeting which is also held during the Annual Conference in August. The Delegates act only in an advisory capacity to the Board of Directors.

The EAS Program Chairman tries to prepare an outstanding program for the annual Conferences. If the leading apiculturists do not have an answer to a question, they will refer you to those that do.

Because of the gasoline situation, some states are sending busses to the Conference. Others, are getting together and planning car pools to help cut down on travelling expenses. Where there is a will there is a way. Don't let the energy crisis keep you home.

If you would like to have the opportunity to "meet those in the know" in regard to beekeeping, and to travel, attending one of those 'mini-vacation bee get-togethers' is the way to go! The atmosphere of each is very different from the previous ones. Try it, you'll like it! For your convenience, a pre-registered form is enclosed in the centerfold of the June and July issues of the EAS Journals.

Respectfully submitted,
Liz Rodrigues, EAS Secretary

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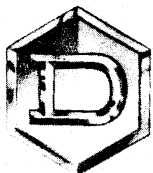
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Single \$3.00 Couple \$4.00 Family \$6.00 Individual Life Membership \$100.00

For Enclosed Amount (_____) Date _____ 1979

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