EAS JOURNAL

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EASTERN APICULTURAL SOCIETY OF NORTH
AMERICA, INC.

VOLUME 15 • NUMBER 3 • SUMMER 1987

EAS-87 Registration Issue

Blacksburg Virginia August 3-8, 1987

Frank Fulgham President EAS-87

Reservations

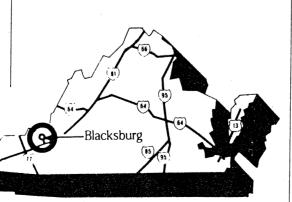
Pre-register now! Avoid the \$10 late fee by sending in your registration form in time to meet the July 15th deadline!!! Include a check for the full amount due with your form. You will receive confirmation by mail if we have your form by the July 15 deadline. Upon arrival in Blacksburg, report to the Donaldson Brown Center (CEC) for your nametag, conference material, and lodging instructions.

The annual Conference and Show of the Eastern Apicultural Society will be held August 5-8, 1987 with the EAS Short Course preceeding the converence on August 3-5, 1987. The conference will be held on the campus of Virginia Tech (Virginia Polytechnic Institute and State University) in Blacksburg, VA at the Donaldson Brown Center for Continuing Education.

The Donaldson Brown Center, known as the CEC, is a fully air-conditioned facility providing an auditorium where our main lectures will take place and 7 conference rooms which will provide space for commercial exhibits and show entries. The CEC is located in the principal activity area of the campus and of EAS activities. It is adjacent to the Squires Student Center and University Book Store. Its location at Otey Street and College Avenue is only two blocks from Blacksburg's downtown shopping area. Bowling, table sports, films, the University's golf course, indoor and outdoor tennis courts and jogging areas are available to conference guests.

Travel to Blacksburg

Blacksburg is located in the mountains of southwestern Virginia on US Route 460 off I-81, 40 miles west of Roanoke and approximately 50 miles west of the West Virginia Turnpike's south



exit. Peidmont Airlines offers flights from many major cities to Roanoke's Woodrum Field. Limousine service to Blacksburg is available by reservation. Virginia Tech's airport in Blacksburg serves private and chartered aircraft.

Parking for recreational vehicles is available on campus. Hookups are provided for electrical service; however, waste disposal is not available on site.

Anyone needing help with their travel plans may contact my office in Richmond. Ask for Frank Fulgham at (804) 786-3515.

EAS Lodging

Participants may choose from two lodging alternatives. First, rooms are available in nearby campus dormitories for the modest rate of \$9.50 for a single room and \$6.50 per night per person for a double room. These rooms are not airconditioned, and you may wish to bring a fan. Linen and pillows are provided. Bathrooms are located on each hallway in typical dormitory fashion.

If you prefer air-conditioned lodging, it is available at the rate of \$45 per night for a single and \$25 per night per person for a double room. These rooms will be typical motel-style rooms with private bath and television. Motel lodging is available for approximately 200 people at the Donaldson Brown Conference Center in the same facility as our meeting. Once the CEC Center is full, conference guests wanting air-conditioned facilities will be assigned to rooms at the Sheraton Red Lion Inn or Holiday Inn motels (at the same rates) located at the edge of campus about one mile from CEC. Shuttle service will be provided between the motel and the CEC. NOTE: Rooms will be assigned on a firstregistered basis, so send in your registration form as soon as you receive it. You will be notified of your lodging assignment if you register by July

"EAS-87" Program continues on page 6

THE EAS JOURNAL

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EDITOR'S NOTEBOOK

Dear Readers:

By now you have certainly noticed that there is a 'cluster-effect' of the mailings of the EAS Journal leading up to the annual August Conference. This is due to the need to present the latest conference information. Since the April Board of Directors meeting is usually the time when final plans are approved, there is less than 4 months to communicate the newest information to you.

To do this we have split up the information for the Virginia-87 Conference between the Winter, Spring and Summer issues of the EAS Journal, and the mailing dates of the last two numbers will be (hopefully) less than a month apart. I know this causes some confusion on the part of the readers, but this schedule helps us give you the latest information possible.

This issue marks my one-year mark as your editor. I would like to thank those of you who have commented on this publication both positively and constructively. The editorial committee will evaluate this arrangement at the August Conference.

.

Some of you may have wondered what happened to Al Delicata. In a note from Al, he indicates that he has moved to Maine, and is now the newly-elected president of the Maine State Beekeepers Association. He writes: "As you know I've not been very active in beekeeping circles for the past two years because of my move to Maine. The move is now complete. We and the bees are settled and I'm taking an active role again.

"Have been (working against) legislation to try to prohibit beekeepers and land owners from killing bears if they destroy property, but we had such good representation from beekeepers, blueberry growers, apple growers, sheep herders and the Department of Agriculture itself that the sponsor of the bill withdrew it.

"Hope to see you soon at an EAS gathering before too many moons." - Sincerely, Al Delicata, Rt 1 Box 417, Stockton Spring, ME 04981.

Some of you have asked about Karl Showler, our English beekeeping friend and popular EAS Short Course lecturer a few years back. In April Karl wrote:

"At the last national delegate meeting of the British Beekeepers Association I was returned to the National Executive (Board of Directors in US terms) for a fourth term of three years. This put me in line for the Chairmanship and I was duly proposed and seconded for the hot-seat unopposed. This will keep me busy for the next one or two years. We face many problems, urbanization of apairy sites around our cities, the threat of Varroa mite from Europe, and what bad weather we can face after two terrible seasons.

On the otherhand we have a good team to head up and a good track record with our own headquarters building at the Royal Agricultural Show ground, the forthcoming spring convention is sold out, and we plan for 2,000 beekeepers to attend the Exhibition section on a two-acre covered site on May 9th."

Showler further noted that he spends 2 1/2 days with IBRA in Cardiff and the rest of his time to deal with the BBKA Chairman' job. His address is 'Riverside', Newport Street, Hay-on Wye, via Hereford, HR3 5BG, UK.

Margaret Adey, the IBRA Director who visited EAS at the Pennsylvania Conference, has resigned from the position, and I understand a new Director has been named or will be soon.

Meanwhile, IBRA has purchased it's new home in Cardiff Wales, and a sizeable amount of cash is in reserve from the proceeds of the sale of Hill House in Gerrards Cross, a London suburb.

The Virginia Conference will be wonderful - I know from personal experience from working with Rick Fell, Frank Fulgham, Homer Powers and many others in Virginia. They always do a great job. It may seem to be a long drive from 'far points', but when will you get another chance like this one? I hope to see you there! LJC •

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- By lobbing in Washington, D.C. for our industry.
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Southern States Visit England

Shirley Curtis Greensboro, North Carolina

This fall, beekeepers from all over the United States will have an excellent opportunity to attend the first American and English bee meeting at Cardiff University in Wales and the International Honey Show in London. The Southern States Beekeeping Federation is sponsoring a trip to England, including an excursion to Cardiff University in Wale and a visit at Buckfast Abbey in Devon.

Departure is set for Saturday, October 17th when the group leaves Kennedy Airport in New York for the 6 pm overnight flight on KLM Royal Dutch Airlines. KLM is known for its superb service including free headsets and movies and complimentary dinner with wine, snacks and breakfast. We will make a brief change of planes at Amsterdam's Schiphol airport, and arrive in London by 8 am. We will be met at London's Heathrow airport on Sunday by our tour guides and deluxe motor-coaches and transfer to Cardiff in South Wales. to Cardiff will include a stop enroute Bath for lunch. Upon check-in at the Post House Hotel, in early afternoon, there will be ample time to rest before the reception at the University in late afternoon. Dinner is included.

On Monday, October 19th, the day is free to enjoy the seminars and events at the University of Cardiff. English breakfast and dinner at the hotel is included. After Tuesday breakfast, the group will enjoy a day's drive along the English countryside, stopping for lunch enroute to Buckfast Abbey and a tour and visit with Brother Adam. Dinner and overnight accommodations are in Plymouth, situated on England's southern coast

On Wednesday, October 20th, the group will make its way to London, stopping to enjoy the fascinating ancient site of Stonehenge, outside the city of Salisbury. We will also see Oxford, with its famous University. We will check into our London hotel in late afternoon.

For the next four days, Thursday Saturday, October 22-25, your days are free to attend the International Honey Show at Portchester Hall and take some tional sightseeing excursions in condon. English Breakfast is provided at the hotel each morning. For those of you wondering what is included in an "English breakfast" ... its similiar to our big

American breakfasts - juice or fruit, cereal, bacon, eggs, sausage, toast, marmalade, honey, coffee and tea.

We will depart London on Monday, October 26, on a 10 am flight via KLM Royal Dutch Airlines. We will again connect through Amsterdam's Schiphol airport, well known for its fabulous duty-free shopping. It is there where you can buy tulip bulbs, Dutch chocolates, and many wonderful European specialities, all at duty-free prices. Our flight across the Atlantic returns us to New York City's Kennedy Airport at 3:20 pm.

We hope you will join your beekeeper friends for this exciting travel opportunity. The cost of the trip is \$1250 per person and a deposit of \$200 will reserve your space. We also want to note that it's very important to send in your deposit as soon as possible. English hotels, unlike American ones, require an advance deposit to hold your reservation and space is limited.

Call the Lucas Travel Agency for a complete itinerary and brochure. The toll free number is 1-800-632-3070.

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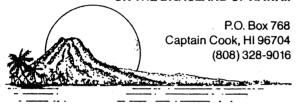
EAS-87 Program, from page 1

EAS Daytime Meals

A Campus dining Hall 6-meal package is available for \$18 per person. This plan begins with breakfast on Thursday and ends with lunch on Saturday. The Campus Dining Hall serves cafeteria-style meals featuring a variety of foods at each meal including a 20-item salad bar, cold-cereal bar, homemade granola, fresh-baked goods, cold-cut bar, beverage bar, fresh fruit, choice of three entrees, deserts, and self-service ice cream freezer. The Campus Dining Hall is a short walk from the CEC and convenient to the dormatory rooms. Since special events are scheduled for the evening meals for the conference, the evening meal is not included with this meal package price. However you may



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WALTER T. KELLEY CO., INC. CLARKSON, KY 42726 U.S.A. (502) 242-2012 purchase evening meals on a pay-as-you-go basis if you do not attend the special evening events. Any meals may be purchase separately at the door for those not wishing to purchase the six-meal plan.

Meals are also available at the CEC Dining Room, a full-service restaurant located off the lobby of the CEC serving a select breakfast buffet and a luncheon plate in dining-room atmosphere. Individual meals may be purchased in advance. Breakfasts are \$4 and luncheons are \$6 each.

A Ladies Luncheon Tour will be offered on Thursday for those interested in seeing the many landmarks of nearby Roanoke. Included in the tour are Center in the Square (a downtown shopping area), St. Andrews Catholic Church (a beautiful gothic cathedral), Mill Mountain (a mountain drive overlooking the city with impressive homes), and City Market (unique shops, art galleries, and a farmers' market). A luncheon will be served at the Roanoke Country Club. The cost for the luncheon and tour is \$18 per person (NOTE: If you purchase the Campus Dining Hall 6-meal plan, your cost is only \$14.50 additional for the Luncheon Tour in place of the Thursday lunch in the Campus Dining Hall).

EAS Evening Events

The President's Champagne and Wine Dinner/Reception will be held on Wednesday evening and will include champagne, wine, beer, and non-alcoholic Alpenglow sparkling Virginia apple cider. Hot and cold hors d'oeuvres along with a standing steamship round of beef will provide ample food to allow this reception to qualify as dinner. The dinner-reception will be held at the CEC Dining Room. Those not attending this event may get dinner at the Campus Dining Hall or nearby downtown restaurants.

Thursday's Virginia Bluegrass Festival will be held in the Squires Student Center adjacent to the CEC and will feature Virginia Foods with bluegrass music and entertainment. Iced tea, lemonade and beer will be served for your enjoyment.

The EAS Awards Banquet will be held on Friday in the Squires Student Center Ballroom. Following dinner, the EAS Show winners will receive recognition and entertainment by a local vocalist will round out the evening.

EAS Short Course

Be sure to include registration, and lodging for the EAS Short Course if you plan to attend. If you plan to attend only part of the Short Course, indicate which days you are attending. Meals for the Short Course will be purchased at the door.

EAS-87 in Virginia is going to be a must if you are a beekeeper who is interested in advancing your beekeeping skills, keeping up-to-date on the latest national beekeeping issues, and enjoying the followship of others who share the same love of bees, beekeeping and honey.

Don't delay! Send in your registration form TODAY. Don't wait! You may not get the lodging you want! Don't put it off! It may cost you a \$10 late fee. Don't be sorry! Come to Virginia for EAS-87.

()

Registration form on pages 8 and 9

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Mead is the oldest alcoholic beverage known to man. The text reviews its lengthy history and gives specific details on making honey wine at home. \$9.95 (Softcover)

Honey Bee Brood Diseases

A 32-page booklet written by the Danish honey-bee expert Henrik Hansen. Morse edited this English Edition. The 25 color plates describe the common problems clearly; three pictures of varroa disease that threaten to invade North America are included. \$9.95 (Softcover)

A Year in the Beevard

The 'year' book guides one through the beekeeping year on a month-by-month basis. The 12 chapter book is a result of 45 years of experience keeping bees in the Hudson Valley and Finger Lake regions of New York and in Florida. The first chapters discuss how to start in beekeeping, needed (and useless) equipment and sources of information. \$14.95 (Hardcover)

Beeswax: Production, Harvesting, Processing and Products

Beeswax was co-authored with Dr. William L. Coggshall, namesake of his grandfather who at one time owned 4,000 colonies of honey bees, more than any other man in the world at the time. Bill's father spent his life as a commercial beekeeper. Dr. Coggshall has been a commercial beekeeper, college professor and owned and operated Wax Workers, a manufacturer of foundation, candles and processed beeswax for industry.

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The Complete Guide to Beekeeping

The "Guide" is a book for beginner beekeepers. It was revised and updated in 1986. It discusses how to start in beekeeping, the cycles of the year, and such issues as diseases, pollination and harvesting honey. \$8.95 (softcover)

The Illustrated Encyclopedia of Beekeeping

The "Encycopedia" is a worldwide compendium of information on bees and beekeeping. Over 50 specialists have made contributions to this A to Z text. \$35 (Hardcover)

The Golden Throng

Wicwas Press has purchased the few remaining copies of this 1940 classic by Pulitzer Prize winner Edwin Way Teale. A hobby beekeeper, Teale writes in a clear and vivid fashion about bees and beekeeping. \$16.95 (Hardcover)

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1987 Conference Program

Blacksburg Virginia

August 5 - 8

Wednesday, August 5, 1987

8:00 am Final Day of Short Course (till 5:00 pm)

10:00 amPreparation and Review Session for Master Beekeeper Exam
Dr. C. Collison assisted by Master

Beekeepers

12:00 pm

Lunch

1:00 pm Master Beekeeper Written and Laboratory Exams Dr. C. Collison

2:00 pm Registration for Honey Show, Photo Salon etc. (open to 5:00 pm)

4:00 pm Delegates Meeting

4:00 pm D'Adant - Beauty & Candle Collection - Tim Dadant

6:00 pm President's Champagne Reception

8:00 pm Evening Program: World of Beekeeping -Brian Sheriff

8:00 pm Directors Meeting

Thursday, August 6, 1987

9:00 am Call to Order - President Frank Fulgham

9:10 am Invocation - Reverend A.A. Blanks

9:15 am Welcome to Virginia Tech -Dr. J. Nichols

Dean, College of Agriculture

Dr. T. Pavne

Dept. Head, Entomology

9:30 am 'Dreaming About Bees' - Dr. R.S. Pickard

10:15 amCoffee Break

10:40 am'Bees and The Media: A Positive Image' Dr. Jim Tew

11:05 am'Who's Boss in the Bee Hive' - Dr. R.A. Morse

11:35 am'Beekeeping Experiences in Panama' - Dr. D. Caron

12:00 amLunch Break (12:00 - 4:30 Ladies Luncheon Tour)

1:30 pm Start of Workshops

1:30-2:20

Dewey Caron, 'Mead'
 Pat Powers, 'Brood Diseases'
 Cliff Sunflower, 'Beeswax ornaments'
 Steve McDaniel, 'Bee Photography'

2:30-3:20

Larry Connor 'Writing Bee Newsletters'
 Fred Lamb, 'Wood Preservatives'
 Steve Tabor, 'Mgmt. for Honey Prodn'
 John Newdorp, 'Creamed Honey'

3:30-4:20

Bill Hartls, 'Sourwood Chunk Honeys'
 The Krochmals 'Honey Plants in
 Landscaping'
 Kemper Loyd, 'Floral Sources & Their

4. Fred Lamb, 'Wood Preservatives'

4:30 pm Professional Apiculturists Meeting OR

4:30-5:30 1. Collison, Masters Beekeeper Program Critique'

2. Bees on Crosses

6:00 pm Dinner Buffet and Blue Grass Festival

Friday, August 7, 1987

9:00 am Call To Order - Vice-President -Bob Wellemeyer

9:05 am 'Queen Rearing - Fact and Fiction; Applied and Scientific' - Steve Taber

9:45 am 'What's New About Drones' - Dr. Larry Connor

10:15 amCoffee Break

10:35 am 'Africanized bees' - Dr. Anita Collins

11:05 am Beekeeping, Varroa Mites and the Iranian Government' - Dr. D.B. Komeili

11:30 am'Bees, Beekeeping and the Law' - Dr. L. Geyer

12:00 pm

Lunch Break

1:00 pm Special Question and Answer Session on Bees and the Legal Aspects of Beekeeping - Dr. Geyer

1:30 pm Start of Workshops

1:30-2:20

John Newdorp, 'Creamed Honey'
 Kemper Loyd, 'Floral Sources and Their Honey'
 Pat Powers, 'Brood Diseases'

2:30-3:20

Dave Ambrose 'Potential for Using Computers in Bee Yard Management' not hardware (one presentation only)
 Steve McDaniel, 'Bee Photo'
 The Krochmals, 'Use of Honey Plants in Landscaping'
 Dewey Caron, 'Mead'

3:30-4:20

Kemper Loyd, 'Floral Sources and Their Honey'
 Bill Hartis, 'Sourwood Chunk Honey'
 Cliff Sunflower, 'Beeswax Ornaments'

4:30 pm Business Meeting

6:30 pm Awards Banquet

Saturday, August 8, 1987

9:00 am Call to Order - 1988 President

9:05 am 'Nectar Plant Attractiveness & Its Importance to the Beekeeper - Dr. G. Ayers

9:45 am 'Title' - Student Award Winner

10:15 amCoffee Break

10:30 am'Title' - Hambleton Award Recipient

11:15 am'Thinking Like a Bee' - Dr. J. Ambrose

11:45 am Invitation to 1988 EAS

Allan Corderman

12:00 pm

Meeting Adjourned

Rick Fell, Ph.D. **Program Chair** Department of Entomology Virginia Tech



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Inside EAS

Conference Guidelines

In 1979 Mrs. Jean Hopkins, Secretary to the 1979 EAS Conference held in Ottawa Canada, initiated the first work in developing a set of conference guidelines. Mrs. Hopkins, assisted by by the Association of Administrative Assistants, developed a comprehensive set of guidelines on how to go about organizing the many tasks associated with hosting an EAS conference. In 1980 these guidelines were further expanded by the EAS Secretary, Mrs. Liz Rodrigues. No additional work has been done since that time, resulting in the guidelines becoming essentially obsolete relative to current-day conference planning.

The past several years has seen a remarkable growth in the size and complexity of the annual conference. Just a few short years ago a conference with 300-400 participants was considered excellent. Today the average conference is attended by some 500 to 700 beekeepers. It is expected that we will hit the 1000 mark prior to 1990.

In recognition of this growth and problems associated with having a new President 'start cold' each year, the Chairman of the Board of Directors, Bob Cole, appointed a committee of Past Presidents to develop and publish a code of Regulations and Guidelines for hosting the annual conference.

Named to the Committee were Bob Shaffer, Dewey Caron, Frank Fulgham, and Charles McKellar as Chair. The committee will be permanent with the incoming president replacing the oldest past president.

The objective of the committee is to develop an overall set of conference guidelines which will not only be a "how to do it" type guide for the incoming president and assorted committees, but also include EAS policies and procedures pertaining to the annual conference as developed over the years by the Board of Directors.

Copies of the 1979 and 1980 guidelines were obtained and distributed to committee members. Based on these, along with comments by the committee, an initial draft was completed. It is expected that the completed guide will be presented to the Board of Directors for approvial at the August conference in Blacksburg. -- Charles McKellar

History of the Hambleton Award

In 1972 the late Thomas E. Raney, President of EAS, which held its meeting in Connecticut that year, and former president of the Connecticut Beekeepers Association, presented Professor Roger A. Morse with a certificate of appreciation from the EAS that read, "for outstanding and dedicated service in research and education to the beekeepers of the United States and Canada from the EAS and Connecticut Beekeepers Association".

The idea of awarding certificates to those who assisted in the EAS educational program, and in bee research, was discussed at length at the Connecticut EAS meeting and subsequent meeting of the Directors that fall.

In their April 14, 1973 meeting, the EAS Board of Directors moved to create the James I. Hambleton Award. Hambleton had been in charge of the U.S. Department of Agriculture's bee research program for several decades. He was also instrumental in establishing EAS. The Board of directors appointed a committee to pursue the matter and to select the first awardee. The committee consisted of Albert S. Michael (Chair), Roger A. Morse, Allen W. Benton, and Thomas E. Raney. The purpose was, and is, "To recognize and encourage outstanding research conducted in North America."

Recipients of the award have been: Rolf Boch (1973), Norman E. Gary (1974), Basil Furgala (1975), Walter C. Rothenbuhler (1976), Samual E. McGregor (1977), Hachiro Shimanuki (1978), S. Cameron Jay (1979), Jonathan W. White, Jr. (1980), Elton W. Herbert, Jr. (1981), Thomas E. Rinderer (1982), Thomas A. Gochnauer (1983), Roger A. Morse (1984), Alfred Dietz (1985) and Eric Erickson (1986).

Resolution Guidelines

Resolutions may be proposed by any member or Association in good standing. Persons or Associations wishing to submit a resolution must contact their respective delegate(s) before that year's conference. Proposed resolutions must be submitted in written form. Delegates take these proposals to the delegate's meeting for consideration. Approved proposals are then presented to the Board of Directors for action. These proposals are also posted at the information

center so that they may be reviewed by the general membership prior to the General Business meeting. All proposed resolutions acted upon by the Board of Directors will be presented for vote during the Resolution Committee's Report at the General business meeting. The vote of the membership is binding and may override the decision of the Board of Directors. Resolutions will not be accepted from the floor - R. G. Wellemeyer, Vice President, EAS-87.

How are EAS Officers and Directors Chosen?

Members may recall a *Speedy Bee* article a few years ago in which the question was asked - Who Runs EAS? It is a good question and one which all members have an interest.

Our Constitution coordinates nominations for vacancies in our slate of officers.

- a. Nominations for President and First Vice-President come from the state or province in which the next conference will be held.
- b. Similarly, the Second Vice President comes from the host state next in line (Allan Corderman from Mass. is our 1987 Second VP and is expected to take over as President for 1988). Other officers, as listed in the Constitution, come from the membership at large.
- c. There is a provision made for each state or province to have one, and only one, director on our board of directors, in addition to any officers.
- d. Directors serve for a term of four years and may not be nominated to succed themselves.

Normally nominations for new directors are submitted by the beekeeping organization in the state (province) which they are to represent. However, in the odd case such as my own, where the province is vast and interest in EAS at the time was not great, the selection was made by EAS members from the area concerned. Officers and directors are elected at the annual meeting.

In recognition of the nature and volume of work involved, the Secretary and Treasurer receive small honoraria and reimbursement for travel expenses. Other officers and directors receive no compensation, but are reimbursed \$45 for part of their expenses in attending the spring and fall meetings of the Board of Directors.

— David Dodge, Ontario

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1987 **Short Course** Program

August 3-5

Blacksburg Virginia

Monday, August 3, 1987 - Diseases and Pests of Honey Bees

Morning Session

Check-in and Orientation 8:30 am **Bacterial Diseases** 9:00 am 9:40 am Viral and Fungal Diseases Break 10:20 am Wax Moths and Other Pests 10:35 am The Bee Mites (Collison) 11:15 am 12:00 pm Lunch Break

Afternoon Session

1:15 pm Meet and Travel to University Apiary for Laboratory and Beeyard Sessions

*Topics for Apiary Sessions:

1) Field Recognition of Foulbrood Diseases
2) Field Identification of Chalkbrood and Sacbrood
3) Laboratory dentification of AFB and EFB
4) Laboratory Diagnosis of Mites

Evening Session

7:00 pm Examination of Specimens for Mites (Collison) Chemotherapy and Disease Control (Staff)
Question and Answer Session on Days Topics

Tuesday, August 4, 1987 - Biology and Behavior of Honey Bees in Relation to Management

Morning Session

Pheromones of the Honey Bee (R. Fell) 8:00 am Queen Biology and Role of the Queen 8:50 am (Connor Biology and Behavior of Swarming Bees (Collison) 9:30 am 10:10 am Break Organization of the Nest in Relation to Colony 10:30 am Management (Connor) Nectar to Honey - The Conversion Process 11:00 am 11:20 am Winter Biology of the Honey Bee (Tew)

12:00 pm Lunch Break Afternoon Session

1:00 pm The Sting, Venom and Allergic Reactions

Apiary Session

Queen Finding / Requeening (Fell) Techniques for Moving Bees (Collison) Use of Fume Boards for Honey Removal 2:15 pm 2:40 pm 3:05 pm 3:30 pm Break Evaluating Bee Behavior (Collins)
Queen Holding Colonies (Connor)
Transferring a Feral Colony (Fell) 3:45 pm 4:10 pm

Note: Class divided into 2 groups and each session repeated twice

Evening Session

Experiences with Africanized Bees - Dr. 7:00 pm Collins and Dr. Tew 8:00 pm Evening Social - Wine Reception for Instructors and Participants

Wednesday, August 5, 1987 - Production, Reproduction and Breeding of the Honey Bee

A Primer to Honey Bee Genetics (Collins) 9:00 am Practical Considerations in Queen Rearing

Breeding (Taber) 10:00 am Break

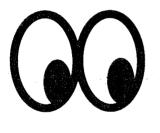
Drone Production and Biology (Connor)
Honey Bee Races and Hybrids (Morse)
Microscopic Examination of Honey (Dr.
Pickard) 10:15 am 10:50 am 11:20 am

12:00 pm Lunch Break

Afternoon Session - University Apiary

1:30 pm 2:15 pm Queen Evaluation (Taber) Queen Rearing (Tew) 3:00 pm Break 3:20 pm

Establishment of Mating Nucs (Connor) Return to Continuing Education Center Presentation of Certificates and Course 4:00 pm 4:15 pm Evaluation



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First, the Life Membership Fund supports the EAS Student Scholarship program. Each year this scholarship goes to a Graduate Student the nominating committee has singled out as one of the outstanding future researchers in our industry. Scientific achievement is the backbone of beekeeping's advancement, and the contributions EAS makes aids these exceptional students, beekeeping, and ultimately you.

Second, Life Memberships provides financial security for EAS. Our organization needs to have a solid foundation as a base for our long-term growth and development, and to provide a financial base for each year's annual conference.

Finally, EAS Life Membership provides you the benefits and privileges of permanent membership in the Eastern Apicultural Society of North America, Inc. You dues are paid for life, you will receive the EAS Journal, and you have the knowledge and satisfaction of investing in the future of North American beekeeping.

It's clear that this investment is certainly a wise move. And the Trustees of the Life Membership fund offer Membership

application two ways. Becoming a Life Member in EAS requires an investment of only \$100 as a single payment, or in three installments of \$33.34 spread out over two years.

EAS life membership is an investment in your future and the future of beekeeping! For more information, contact Mr. Kim Flottum, Chair, 7011 Spieth Road, Medina, OH 44246, or Mr. Donald Chirnside, Treasurer, 201 Briarbrook Drive, North Kingstown, RI 02852.

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