



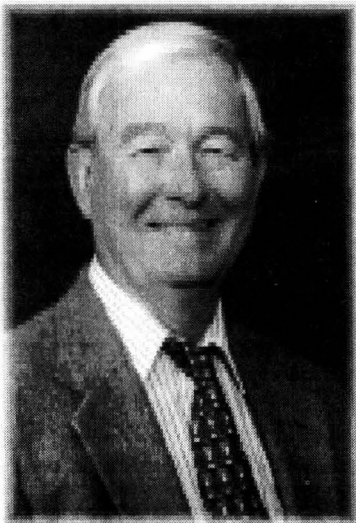
EAS JOURNAL

Maryland Beckons

This issue brings you complete information, curricula, and registration forms for the 45th Anniversary Meeting of EAS!! Salisbury State University, on Maryland's Eastern Shore, the site of this summer's conference from July 31 - August 4, and it certainly will be abuzz with beekeepers from all over the United States and Canada. EAS 2000 promises to be an excellent meeting and offers a tremendous learning opportunity for beekeepers everywhere, and from every level of experience.

The week of activities begins on Sunday July 30th when the dormitories open for incoming Short Course participants. Again this year, EAS offers two levels of short courses which begin

bright and early on Monday July 31st. Level I, directed by EAS Master Beekeeper Steve McDaniel from Maryland, is designed to cover all of the basics for new beekeepers (defined as 5 years or less of experience) with many activities geared towards practical beekeeping. Steve has designed the Level I short course with demonstrations, labs, and workshops that will give the participants an opportunity to reinforce the lectures with hands-on practice. The Level II Short Course is designed for experienced beekeepers wishing to advance their basic understanding of bee husbandry with a strong dose of



Dr. Norman Gary

bee biology and bee behavior. This year, the Level II short course focuses on the queen honey bee and her central importance. Instructors focus on rearing queens, using demonstrations, labs, and in-hive workshops to reinforce the oral lectures. In both levels of the short course, we have increased the number of sessions spent in the beeyard from the past couple of years and hope to provide practical activities that build confidence and encourage participants to return home and apply some of these lessons to their beekeeping operation. On Wednesday morning, both levels come together for the morning's session which concludes with a beekeeper's version of the popular Public Broadcasting Series "Antiques Roadshow" hosted by Dr. Wyatt Mangum. Bring your beekeeping antiques for show and tell or bring in that confounding old beekeeping item and have Wyatt try to identify it for you!

On Wednesday, August 2, honey show entries will be accepted from 9:00 AM until 1:30 PM at the Caroline Room in the Commons Building. Entries will be accepted for BOTH the

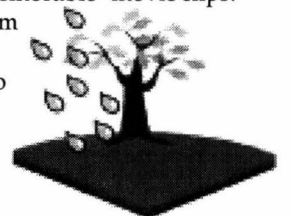
traditional EAS Honey Show and the MD State Beekeepers Association (MSBA) Honey Show! As a change this year, the MD State Beekeepers and EAS have decided to hold two concurrent but separate honey shows, as detailed in the Winter issue of the EAS Journal. Please re-read the show rules as previously published and bring your items for entry into both shows and maybe take home a little cash in your pocket from the MSBA show! Also opening on Wednesday will be the vendor booths where a large variety of supplies, and newly introduced items will be on display and available for purchase. Please visit the vendor booths, ask questions, and comparative shop for that much needed equipment for your beekeeping operation!

The EAS conference also begins on Wednesday with presentations from Dr. Norman Gary, who has spent his professional career as a bee researcher and has moonlighted working as a bee wrangler for Hollywood movies! Also on the program is the ever popular and extremely entertaining Dr. James Tew, who will discuss a few of the challenges involved in moving bees. At the end of the day there will be a beekeeper's social featuring homemade honey ice cream and honey root beer donated by Maryland's Carroll County Beekeeper's Association followed by a showing of some of Dr. Gary's more memorable movie clips.

On Thursday, the conference program continues with presentations from prominent USDA researchers Dr. Hachiro Shimanuki, Dr. John Harbo, and Dr. Jeff Pettis, as they describe research progress with parasitic mites and the newly introduced small hive beetle. The annual administration of the three part Master Beekeeper Exam begins Thursday morning.

Examinees must pre-register to take this exam by contacting Lorretta Surprenant, EAS secretary, for more information.

Thursday afternoon marks the start of our huge workshop program. Master Beekeepers Bill and Nancy Troup along with Master Beekeeper Steve McDaniel have organized an amazing collection of workshops of interest to all. The only drawback is that it will be



Spring 2000

Continued on Page 3



What's Inside

- Your (only) EAS 2000 Registration Form
- Salisbury Conference Information
- More About Salisbury
- Short Course, Master Beekeepers, Honey Show

A Word From Our Chairman . . .

Change. Not a comfortable concept for most of us, even though we live with it day to day. The things that change gradually, like your lawn, are seldom noticed during the change, until suddenly it's time to mow. Those things that change rapidly can be a shock, like the new Mall where your bee yard was last week.

When change involves the fact that we can no longer do things the way we used to, and to get them done, we need to do things differently the greatest discomfort arises. Legions of past beekeepers who routinely ignored their bees until harvest without a seasonal management care speak to this. They are no longer among beekeeping's existing few. It was change or (figuratively) die, and they (figuratively) died. That's pretty severe discomfort.

Changes are slowly, like your lawn, taking place here at EAS. Those changes are, however, not unlike those faced by the legions of beekeepers already mentioned...for it is change or die. EAS must begin to address the changes in its members; the changes in annual conferences; the changes in its geography; the changes in beekeeping management; the changes in where EAS members can even keep bees anymore; the changes in the expectations the public has of our industry; the changes in our responsibility to produce an uncontaminated product; the changes in how agriculture is viewed by local, county, state and even the federal government. Changes are, without doubt, afoot.

Where do we start? What do we change first? When will they take place? Who will do the changing, and who will be changed?

Before we can react to what the world throws at us, we must prepare internally. We must be the best we can be and know as much as we can know. *Therefore, the first order of business for EAS is to change itself.* Beginning this summer, after the Conference, our Short Course and Master Beekeeper Programs will begin to grow and meld and become an Amazing Opportunity for Learning. No longer will you take a test, get a pin and disappear as a Mber. No longer will the Short Course simply send you home with a notebook and notes.

In the very near future EAS will produce the most knowledgeable and disciplined beekeepers ever assembled, anywhere, ever. Now that's change we can all live with. I'll see you all, I hope, this summer. Go Maryland!

Kim Flottum

Send Your Group's Summer and Fall Meeting Notices To The Editor For Publication In The Journal

What Is The Job Of . . .

An EAS Director?

Each state/province is entitled to elect one Director on the governing board of the Society. Directors meet before and after each general meeting and set policy and guidelines for the operation of the business of the Society. Throughout the year, they serve as the liaison between the Society officers and the members in their respective states. They are responsible for recruiting new members, keeping track of state concerns and advising the membership of their activities through the EAS Journal which is published four times a year.

An EAS Delegate?

Each member association in good standing shall be entitled to send one official delegate to each annual conference. A delegate acts on behalf of their local and/or state association by voicing the concerns and recommendations of their respective association. Recommendations that require action by the Board of Directors must be placed in written form to be voted on by the assembled delegates. The President will then report approved motions to the Board of Directors at the next scheduled board meeting. Action taken by the board will be reported to the delegates at the next regularly scheduled delegate's meeting.

EAS Journal

Journal of the Eastern Apicultural Society of North America, Inc.
Volume 28, Number 2

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impossible to see them all, so plan your afternoon in advance! Please bring your favorite local honey for tasting and sharing at the "Taste(s) of Honey" workshop hosted by EAS Master Beekeepers Jim and Penny McCaig from Ontario! In keeping with the historical theme on this 45th Anniversary EAS conference, Paul Jackson, a Texas bee inspector, will bring his fabulous antique smoker collection for display. You may wish to bring your antique smoker along and have Paul assess its age for you. Finally, SSU is a beautiful campus, alive with flowers, flowering trees and shrubs which delight the senses. Mr. Les Lutz, the campus horticulturist will lead tours of the campus grounds, pointing out and discussing the plantings.

The activities on Thursday conclude with a bona fide Maryland crab feast featuring steamed hard shell Maryland blue crabs caught in the local waters of the Chesapeake Bay! We will have plenty of Marylanders on hand to help you crack your crabs and enjoy the local flavor of sweet tasting crab meat spiced with "Old Bay" seasoning. For the faint of heart and landlubbers, we will also have more traditional selections including barbecue chicken, macaroni and potato salads, locally grown watermelon and more! The crab feast and barbecue will be followed by a live auction of donated items to benefit the wide array of EAS programs, including the Honey Bee Research Foundation. We are always looking for donated items (see 'Entertainment' in this issue, for further details); I urge you to

consider what you can do for EAS.

Friday morning's program will be a bit different from past years. We'll be turning the program over to Dr. Roger Hoopingarner and the American Association of Professional Apiculturalists (AAPA) as they present their American Bee Research Conference (ABRC). The ABRC will be particularly interesting as bee researchers present some of their latest results directly to the EAS and AAPA membership. This is an opportunity to hear the very latest research results concerning varroa mites, the small hive beetle, and many other challenges facing today's beekeepers. Concurrently with the Friday afternoon EAS workshop sessions, the ABRC program will resume. It will be open to EAS members, with topics of interest to the professional apiculturalist. The week concludes on Friday evening with the semi-formal awards banquet (for menu details, see inside) followed by a fascinating slide show of a collection of postage stamps depicting bees and beekeeping, presented by Dr. Marion Ellis.

For details on any aspect of this year's week-long program, see the feature articles inside. When you mail in your registration form you'll be ensuring yourself a great time - challenging courses, practical workshops, entertaining speakers, vendors at your doorstep, terrific food and new acquaintances, all in a beautiful setting. Don't miss it! Information is also available at our internet website, <http://iaa.umd.edu/mdbee/EAS2000.html> or by telephoning EAS 2000 President, David Bernard at 301.414.2317.

David Bernard, President

How Far Is Salisbury?

From Salisbury to . . .

Albany, NY	353 miles
Atlanta, GA	693 miles
Baltimore, MD	108 miles
Bangor, ME	667 miles
Boston, MA	437 miles
Charleston, WV	458 miles
Cleveland, OH	482 miles
Columbia, SC	518 miles
Columbus, OH	527 miles
Dover, NH	56 miles
Hartford, CT	338 miles
Indianapolis, IN	707 miles
Knoxville, TN	618 miles
Louisville, KY	707 miles
Montgomery, AL	854 miles
Montreal, Quebec	584 miles
Nashville, TN	801 miles
Newark, NJ	203 miles
Philadelphia, PA	129 miles
Pittsburgh, PA	351 miles
Raleigh, NC	313 miles
Richmond, VA	225 miles
Toronto, ON	635 miles
Washington, DC	116 miles

Source: AOL NetFind - MapQuest

Getting There

The city of Salisbury is at the junction of East-West U.S. Route 50 and North-South U.S. Route 13. Salisbury State University is positioned on U.S. Route 13 at the southern edge of the city of Salisbury.

Driving Directions

From the West: U.S. Route 50 passes West-East through Salisbury. It is the major route between Washington, D.C., and Ocean City, MD. Follow Route 50 East towards Salisbury. Follow Business Route 13 (rather than the bypass) into Salisbury and proceed four miles to the campus, which is located on the right. Turn right on to West College Avenue and left on Camden Avenue. Turn at the second left and proceed into the parking lot.

From the North or South: From I-95 follow Route 50 East over the Chesapeake Bay Bridge into Salisbury (about 1.5 hours). Follow Business Route 13 (rather than the bypass) into Salisbury and proceed four miles to the campus, which is located on the right. Turn right on to West College Avenue and left on Camden Avenue. Turn at the second left and proceed into the parking lot.

Approximate Driving Times

1.5 hours east of the Chesapeake Bay Bridge
2 hours from Baltimore, Wash, DC, & Wilmington, DE
4 hours from Norfolk, VA
4.5 hours from New York City
approximately 40 miles west of Ocean City, MD

Airport Information:

The nearest airport is Salisbury-Wicomico County Regional Airport (SBY) which has daily connections with Baltimore Washington International Airport, Philadelphia and other eastern cities via scheduled commuter airlines. Alternatively, you may fly into Baltimore, Washington (Reagan National or Dulles airports), or Philadelphia and rent a car. Ask your travel agent!

Looking Ahead

2001 – August 6-10

Massachusetts

Maritime Academy, Cape Cod

2002 – Dates to be determined

New York

Cornell University, Ithaca

2003 – Dates to be determined

Maine

Bowdoin College Campus, Brunswick

**For information on the
2000 EAS Conference in
Salisbury, MD contact:**

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Amazingbee@earthlink.net

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**Please contact me with comments, suggestions, corrections,
things you'd like to see in your Journal.**

Short Course Level One

Monday July 31

8:30 AM

Introduction: 10-15-min. slide-tape show
Steve McDaniel, EAS Master Beekeeper

9:00 AM

Bee Equipment and Gear: hive parts and usage; protective equipment and tools
Steve McDaniel

10:00 AM

Where To Get Bees: swarms, packages, nucs, whole colonies; pros and cons
Rick Cooper, EAS Master Beekeeper

10:30 AM - Break

11:00 AM - Field Session

Handling Bees/Sting Avoidance; Colony Manipulation: recognizing castes, brood, eggs; Smoker Lighting and Use; Protective Gear
George Imirie, EAS Master Beekeeper

12:00 PM - Lunch

1:00 PM

Setting Up Your Apiary: selecting apiary locations; hive stands
James Tew, Ohio State University

1:30 PM

Queen Biology and Swarming: pheromones, royal jelly, queen development
Dewey Caron, University of Delaware

2:30 PM - Break

3:00 PM

Spring and Summer Management.

4:00 PM

Honey Extracting and Bottling: hands-on workshop

5:00 PM - Dinner

7:00 PM

Installing Packages
Bob Mitchell, DE Bee Inspector

8:00 PM

Question-and-Answer Session or Slide Show

Tuesday August 1

8:00 AM

Swarming Biology
Richard Fell, Virginia Tech

9:00 AM

Bee Diseases
I. Barton Smith, MD State Apiary Inspector

9:45 AM - Break

10:15 AM

Disease Workshops: (two 30-minute sessions)
Mites
Robert Mitchell, DE Bee Inspector
Bee Diseases
Robert Wellemeyer, VA Bee Inspector

11:15 AM

Record-Keeping

11:40 AM

Queen Marking and Clipping
Nancy Troup, EAS Master Beekeeper

12:00 PM - Lunch

1:00 PM Field Sessions

Making Nucs
Harvesting Honey
Introducing Queens/Requeening
Simple Queen Rearing (emergency techniques)

3:00 PM - Break

3:30 PM

Fall and Winter Management
Steve McDaniel

4:15 PM

Equipment Assembly Workshop (hands-on)
David Bernard, EAS Master Beekeeper

5:00 PM - Dinner

7:00 PM

Short Course Social



Wednesday (joint with Level 2) August 2

8:00 AM

Foraging Behavior of Bees ... Distance, Distribution, and Resource Preferences
Norm Gary, Professor Emeritus, Univ. of California, Davis

8:45 AM

Mix and Match Pollen, It Isn't All the Same
Justin Schmidt, USDA, ARS, Tuscon

9:30 AM - Break

10:00 AM

Small Hive Beetles
Jeff Pettis, Beltsville Bee Lab, USDA, ARS

11:00 AM

Beekeeper's Antiques Roadshow
Wyatt Mangum, Mary Washington College

11:50 AM

Class Pictures
Steve McDaniel, Professional Photographer

12:00 PM - Lunch



Beekeeping Doesn't have To Be A Puzzle. We Can Help.



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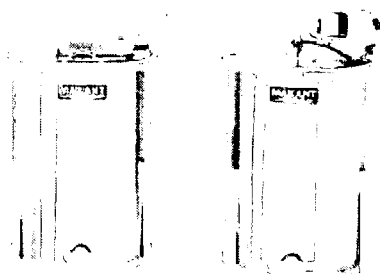
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Short Course Level Two

Monday July 31

8:00 AM

Welcome and Introduction
David Bernard, EAS President

8:15 AM

Split into 2 Levels



8:30 AM

Factors Influencing Queen Rearing
Richard Fell, Virginia Tech

9:15 AM

Doolittle method of queen rearing
James Tew, Ohio State University

10:00 AM - Field and Laboratory Sessions (break into groups)

Beeyard

Miller Method, *Rick Fell*
Emergency Methods Of Queen Rearing
Demo Hives of Esoteric Bee Races, *Mike Embry, UMD Lab*
Queen Cell Grafting session, *Jennifer Finley*
Artificial Insemination Demo, *Medhat Nasr, Ontario Bkprs*

10:45 AM - Break

11:15 AM - Repeat Field and Laboratory Sessions

12:00 PM - Lunch

1:00 PM

Colony Behaviors Evident During Queen Introduction
Wyatt Mangum, Mary Washington College

2:00 PM - Field Sessions

Banking queens, *Keith Tignor, Virginia Tech*
Introduction Methods and Techniques, *Bob Mitchell, DE Bee Inspector; Jeff Brothers, DE Bee Inspector; Bob Wellemeyer, VA Bee Inspector*
Pros and Cons of Removing Attendant Bees, *Bill Troup, EAS Master Beekeeper*
Behaviors Evident During Queen Introduction, *Wyatt Mangum*

3:30 PM - Break

4:00 PM

Managing Hives for royal jelly production
Mohmoud Ali, Univesity of Nebraska

5:00 PM - Dinner

7:00 PM

An Insider's View into a Professional Queen Rearing Operation
Jennifer Finley

Tuesday August 1

8:00 AM

Swarm Behavior and Communication
Dewey Caron, Univ. of Delaware

9:00 AM - Laboratory Sessions

Comparative Anatomy of Honey Bee Castes, *Richard Fell*
Check Condition of Queen Cell Grafts, *Jennifer Finley*

9:45 AM - Break

10:15 AM - Repeat Laboratory Sessions

11:00 AM

Swarm Play In the Beeyard
Dewey Caron

12:00 PM - Lunch

1:00 PM

Miticides and their effect on Honey Bee Reproductives
Keith Tignor

2:00 PM

IPM techniques for managing varroa mites
Medhat Nasr

3:00 PM Break

3:30 PM

The Other Bees: The Secret World of Stingless and Solitary Bees
Wyatt Mangum

4:30 PM

Course Review: Question and Answer session

5:00 PM - Dinner

7:00 PM - Short Course Social

Wednesday (joint with Level 1) August 2

8:00 AM

Foraging Behavior of Bees ... Distance, Distribution, and Resource Preferences
Norm Gary, Professor Emeritus, Univ. of California, Davis

8:45 AM

Mix and Match Pollen, It Isn't All the Same
Justin Schmidt, USDA, ARS, Tuscon

9:30 AM - Break

10:00 AM

Small Hive Beetles
Jeff Pettis, Beltsville Bee Lab, USDA, ARS



11:00 AM

Beekeeper's Antiques Roadshow
Wyatt Mangum, Mary Washington College

11:50 AM

Class Pictures
Steve McDaniel, Professional Photographer

12:00 PM - Lunch

Eastern Apicultural Society Conference Program

Salisbury State University – Salisbury, Maryland

August 2 – 4, 2000



Wednesday, August 2

Moderator: David Bernard - EAS President, Damascus, Maryland

Theme: The Lighter Side of Beekeeping

1:30 p.m.

Welcome and Announcements

David Bernard - EAS President, Damascus, MD

1:45 p.m.

Welcome to Maryland

Bud Virts - Secretary, Maryland Department of Agriculture

2:00 p.m.

Using Bees in Hollywood Movies...Behind the Scenes

Norm Gary - Emeritus Professor, University of California

3:00 p.m. – Break

3:30 p.m.

Murphy's Law and Moving Bees

Jim Tew - Apiculture Extension Specialist, Ohio State University

4:10 p.m.

Better Living Through Chemistry: Basic and Applied Research on Natural Products for Mite Control

Nick Calderone - Assistant Professor, Cornell University, NY

4:50 p.m.

Hambleton Award Winner – tba

5:30 p.m. – Dinner

7:00 p.m. – Welcome Reception and Dessert

8:00 p.m.

The Use of Bees in TV Shows

Norm Gary - Emeritus Professor, University of California

Thursday, August 3

Moderator: David Simmons - President, Maryland State Beekeeper's Association, Churchville, Maryland

Theme: Conquering Beekeeping Problems

8:00 a.m. – Announcements

8:05 a.m.

The Small Hive Beetle

Jeff Pettis - Research Entomologist, USDA-ARS, Beltsville, Maryland

8:50 a.m.

Varroa Mite Control Options

H. Shimanuki - Research Entomologist, USDA-ARS, Beltsville, MD

9:30 a.m.

Developing and Maintaining Varroa Mite Resistant Bee Stock

John Harbo - Research Entomologist, USDA-ARS, Baton Rouge, LA



10:00 a.m. – Break

Theme: History of Beekeeping/EAS 45th Anniversary

10:30 a.m.

Collecting Antique Beekeeping Equipment

Wyatt Mangum - Professor, Mary Washington College, Fredericksburg, VA

11:10 a.m.

The First EAS Conference, Recognizing Founding EAS Members

Bob Cole - Past EAS Chairman of the Board, Todd, North Carolina

11:30 a.m.

EAS Student Award Winner – tba

12:00 noon – Lunch

1:30 p.m. – Workshops (see next page)

6:30 p.m. – Crab Feast

7:30 p.m. – Auction

Friday, August 4

Moderator: Jay Barthelmeus - EAS Vice President, Harwich, Mass.

Theme: Current Research

8:00 a.m. – Announcements

8:05 a.m.

American Bee Research Conference

*Roger Hoopingarner, Emeritus Professor, Michigan State University
(Individual talks to be listed in final program)*

9:45 a.m. – Break

10:15 a.m. – American Bee Research Conference Continued

11:10 a.m.

Preview of EAS 2001, Maritime Academy, Cape Cod, Mass.

Jay Barthelmeus - EAS Vice President, Harwich, Massachusetts

11:20 a.m. – Annual EAS Business Meeting

12:00 noon – Lunch

1:30 p.m. – Workshops (see next page)

American Bee Research Conference Continued

6:30 p.m. – Banquet

7:30 p.m.

Bees by Mail: Sample a 60 Year Collection of Honey Bee Philatelic Material

Marion Ellis - Assistant Professor, University of Nebraska

EAS 2000 WORKSHOPS

THURSDAY & FRIDAY AFTERNOONS

1:30 - 2:15

1. Queen Cell Biology (Thursday only)
Wyatt Magnum, Mary Washington College

Removing Honey Bees (Friday only)
Anthony Buzas

2. Medicinal Uses of Honey and Hive Products
Walter Blohm

3. Artistic Wax Working
Jerry Fischer, MD Bee Inspector

4. The Honey Bee/Pollen Grains in 3-D
Fred Hossler

5. Honey Judging
Ann Harman, EAS Vice Chairman

6. In the Beeyard
Master Beekeepers

2:30 - 3:15

1. Understanding the Stinging Behavior of Bees
Norm Gary, Professor Emeritus, UC Davis

2. STUNG! True Allergy to Bee Stings and What To Do About It!
Barry Thompson, MD, EAS Master Beekeeper

3. Lotions and Potions
Marlene Thomas, EAS Past President

4. Reading the Hive
Bob Cole, Master Beekeeper, Past EAS Board Chairman

5. Campus Botanical Tour
Les Lutz, SSU Horticulturalist

6. In the Beeyard
Master Beekeepers

3:15 - 3:45 - BREAK

3:45 - 4:30

1. Infertile Eggs, Drone Layers, and Laying Workers
John Skinner

2. The Taste(s) of Honey (Bring Samples)
Jim and Penny McCaig, Master Beekeepers

3. Techniques in Carving and Painting Birds & Honeybees
Arthur Strang

4. History of Smokers
Paul Jackson, Texas Apiary Inspector

5. Flowers to 'Bee' Desired
Dick Roberts

6. In the Beeyard
Master Beekeepers

4:45 - 5:30

1. The Anatomy of the Queen
Medhat Nasr, Ontario Beekeepers Association

2. Bee Forage Through the Year
Arthur Gruver

3. Pollen Collection
Ernie Miner, Master Beekeeper

4. Queens - From Eggs to Eternity
Dana Stalman, Master Beekeeper

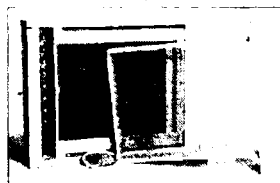
5. Catching Difficult Swarms
Steve McDaniel, Master Beekeeper

6. In the Beeyard
Master Beekeepers
(Powdered Sugar Varroa Detection, *Marion Ellis*)

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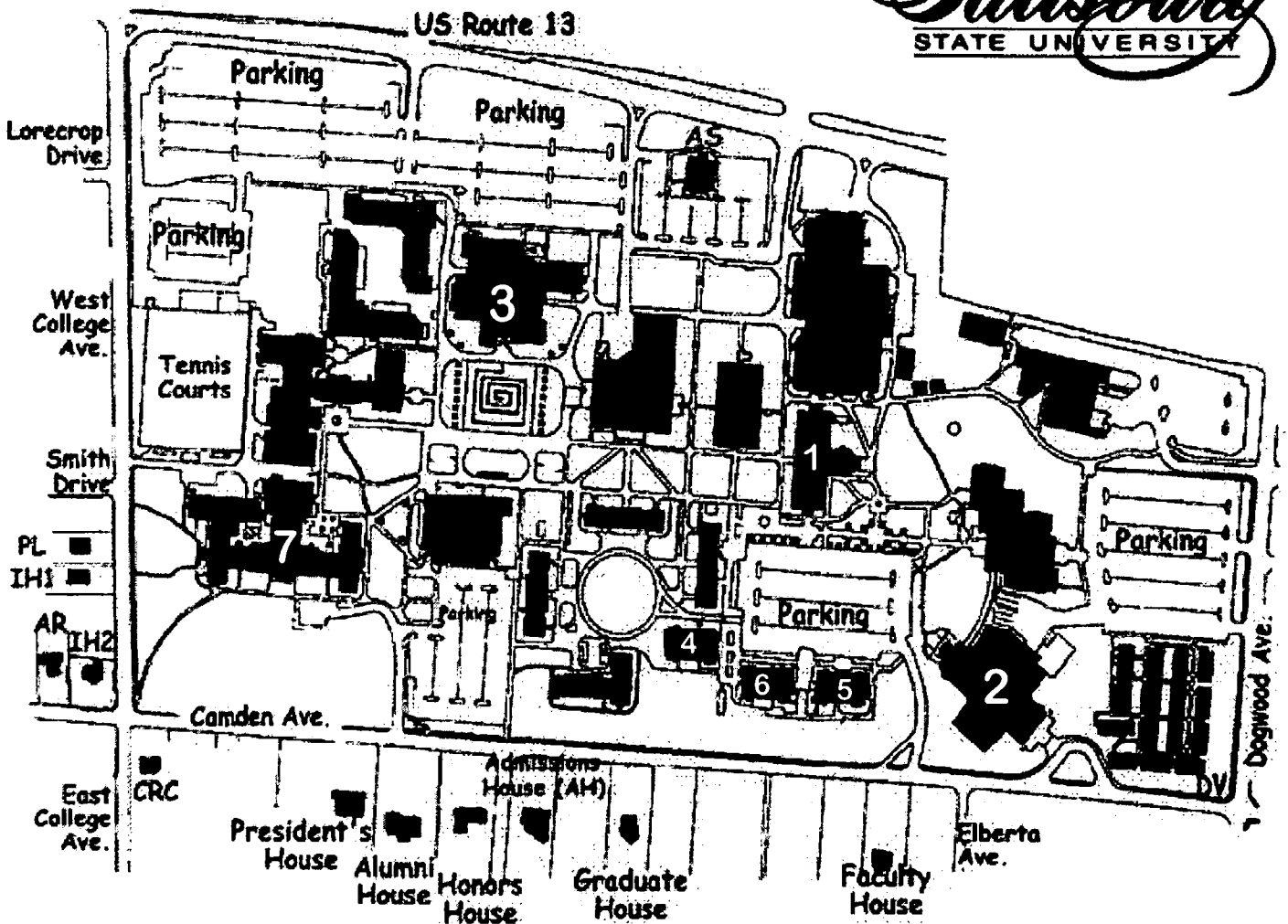
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- 1 - Devilbiss Hall (Master Beekeeper Review & Exams, Labs for Short Course & Workshops)
- 2 - Commons Building (Honey Show & All Meals)
- 3 - Caruthers Hall (Short Course & Workshops)
- 4 - Choptank Hall (Dorm)
- 5 - Severn Hall (Short Course Registration, Dorm)
- 6 - Chester Hall (Dorm)
- 7 - Holloway Hall (Conference Registration, Conference & Vendors)

ABOUT SALISBURY STATE UNIVERSITY, SALISBURY MD

Salisbury State University, part of the University of Maryland System, is located on a lovely 140-acre campus in the city of Salisbury in Wicomico County on Maryland's beautiful Eastern Shore, a part of the Delmarva Peninsula. Visitors will delight in over 2100 species of plants that complement the landscaping and understand why the University is described as having the most beautiful campus in Maryland, having been declared a national arboretum by the American Botanical Garden Association.

The city of Salisbury has a metropolitan population of 70,000 with some 6,000 students enrolled at SSU. Salisbury lies 30 miles west of the resorts at Ocean City, Maryland, and the Assateague Island National Seashore. Salisbury is 115 miles southeast of Baltimore, Maryland, and Washington, DC. The city is 125 miles south of Philadelphia, Pennsylvania, and 125 miles north of Norfolk, Virginia.

Tours and Day Trips:

Thursday August 3, 2000

St. Michael's Tour 9:30 AM – 5PM

St. Michael's, established in late 1600's, is the oldest town in historical Talbot County. It is a lovely harbor town, on a peninsula located midway down the Chesapeake Bay and overlooking the Miles River. Architecture, culture, history, and goods are a mere 90 minute bus ride from Salisbury.

Your tour bus to this charming town will leave Salisbury State at 9:30 AM. The tour's first stop will be at Higgin's Crab House (which is owned by a beekeeper!) for lunch. Many activities are available following lunch. History buffs will want to see this breadbasket area of the American Revolution. St. Mary's Square Museum features a restored colonial home, and the Cannonball House is a testament to the fact that the town fooled the British during the War of 1812. A small park on Talbot Street is dedicated to Frederick Douglas; and the Chesapeake Bay Museum presents aspects of maritime history and the culture of the Chesapeake Bay region.

The Chesapeake Bay Museum includes the Hooper Straits lighthouse, which demonstrates the life of a lighthouse keeper 100 years ago and offers a wonderful view of St. Michael's harbor, home to both working and pleasure boats. A 90 minute ride on the S.S. Patriot which cruises the Miles River provides a relaxing display of the beauty of the area and insight into the local history.

Browsers will want to wander through the wide variety of local shops, galleries and boutiques offering both the expected and unexpected for sale. The small town warmth and wonderful buildings alone make for a pleasant and relaxing visit. Your bus returns to Salisbury State University at 5:00 PM.

Thursday August 3, 2000

Cucumber Pollination Tour 9AM – Noon

Explore the vital contribution bees play in the pollination of one of the major crops on Delmarva. Our tour leaves Salisbury State University at 9:00 am and arrives in Hurlock, Maryland. Listen as a farmer explains how he grows cucumbers and what he expects from a commercial beekeeper. Later, visit with a commercial beekeeper and hear how he manages his colonies to fit the needs of the grower's timetable. The tour then goes to the Bloch & Gugenheimer pickling plant for a guided tour showing how cucumbers are made into a wide variety of pickles. The tour then returns to Salisbury State University at 12 noon.



Friday August 4, 2000

Salisbury Attractions Tour

EAS is sponsoring a tour to three of Salisbury's most interesting attractions on Friday, August 4, 2000. The tour will leave the University at 9:00 AM and return in time for lunch. The tour will be repeated in the afternoon leaving the University at 1:30 PM and return by 5:00 PM.

The tour will begin by visiting the Ward Museum of Wildfowl Art. This is a world renowned masterpiece filled with breathtaking wood carvings of wildfowl, which heads the list of museums in the area showcasing life on the Eastern Shore of Maryland.

The second stop on the tour will be the Salisbury Pewter Company. Salisbury Pewter is the #1 pewter holloware manufacturer in the United States. You will be given a tour of this nationally known company, watch craftsmen at work and browse and shop in the factory showroom. Salisbury Pewter items make great gifts! For more information visit their website www.salisburypewter.com.

The third stop on the tour is historic and beautiful Poplar Hill Mansion, an example of Southern Maryland's architectural style, where we will receive a guided tour of the mansion.

Please join us for the tour of these outstanding Maryland sites which you're sure to enjoy.

*Pre-Register For Tours
On Your Registration
Form Included In
This Issue.*

Two Honey Shows

This summer, beekeepers have a unique opportunity to enter two honey shows at the same time at the EAS Annual Conference in Salisbury, Maryland. Plan now to enter several items in the EAS annual honey, mead, cookery and photography show AND the Maryland State Beekeeper Association's (MSBA) honey and honey cookery show. Both shows will be held simultaneously during this year's conference. Winners of the EAS show will earn ribbons and trophies for their best products and those entering the MSBA show will earn ribbons and cash premiums! In most cases, exhibitors can enter the same entry in both shows - duplicate entries are not needed in most cases! For example, if you are a small beekeeper (10 colonies or less) and you produced light amber honey, you can enter three 1 pound honey jars in EAS class H3, and you can designate one of those same jars for entry in MSBA class 2. Be sure to carefully read the entry requirements and premium lists printed in the previous EAS journal. There are a few classes that are unique to each show.

If you mislaid your journal, a complete copy of the rules and premium list for both shows can be found at <http://iaa.umd.edu/mdbee/eas2000.html>. You may also contact the show chairman for information: I. Barton Smith, Jr., Maryland Department of Agriculture, 50 Harry S. Truman Parkway, Annapolis, MD 21032. 410-841-5920; email: smithib@mda.state.md.us

Bart Smith

Master Beekeeper Exam

The EAS Master Beekeeper Certification Exam will be given as usual this year. There will be a pre-exam review on Wednesday evening, August 2 and the three part exam will be given on Thursday morning. On Friday August 4th, graded exams will be returned at a review session. A general meeting of all certified Master Beekeepers will be held during the conference at a time and date to be announced. To get more information about taking or registering for the exam, contact Loretta Surprenant, EAS Secretary: Box 300, Essex, NY 12936 or, by phone at (518) 963-7593.

EAS 2000 - Lodging, Meals, Entertainment

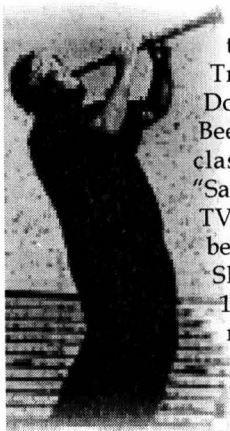
Meals

All meals will be served in the Commons, the brand new Georgian-Style SSU dining facility. The selection of delicious foods is tremendous, resembling an upscale food court designed with kiosks offering a wide variety of menus including grilled foods (hamburgers, etc), roasted foods (chicken etc), pizza, pasta, Mexican foods, Chinese foods, salad bar, fruit bar, delicatessen, ice cream machines, desserts, and more! Certainly, the Commons and the all you can eat meals will be a memorable delight; no one will go away hungry!

Wednesday Social

Wednesday evening will feature a dessert social hosted by the Carroll County Beekeepers Association serving, among other items, home-made honey ice cream and honey root beer!

After the beekeepers social, Dr. Norman Gary will provide an entertaining look at his bee wrangling work with such Hollywood films as the "X-Files", "Fried Green Tomatoes", "My Girl", "Man of the House", "Leonard Part VI", "Candyman", "Beverly Hillbillies", "The War", "Walk in the Clouds", "The Truth About Cats and Dogs", "Invasion of the Bee Girls" (an old "cult classic", still popular), "Savage Bees" (made for TV in 1976...one of his best), "Terror Out of the Sky" (made for TV in 1978...still active in the market), "Deadly Invasion: The Killer Bee Nightmare" (aired 3/7/95, Movie of the week, Fox), and MORE!



Lodging

Lodging is available at very reasonable rates in the fully air conditioned and centrally located dormitory facilities (Choptank and Chester Halls) on the SSU campus. Single rooms are available for \$28 per night and double rooms are available for \$23 per person per night. The dormitories are elevator equipped high rise buildings (6 stories tall) arranged in suites with restrooms shared between rooms within the suite. All towels and bed linens are included in the room rates. **Each dormitory has a limited number of handicap access rooms which are available upon request.**

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Thursday Night Crab Feast

Thursday evening will feature a crab feast and barbecue with traditional hard shell crabs and barbecued chicken. After the crab feast and barbecue, there will be a live auction of donated beekeeping-related items and memorabilia! This has been a popular and enjoyable event at past conferences. We are looking for items to auction. If you have an item that you would like to donate to EAS (fully tax deductible!) for the live auction or a raffle, please contact Carol Johnson by email at Snowdens@mip.net or call (301)-432-6413. Please include a description and approximate value of donated item and we will be certain that you get recognized for your generous donation.

Friday Banquet

Dinner on Friday evening, at the Awards Banquet, will feature your choice of either a filet of flounder stuffed with crab imperial, or prime rib. At the Friday evening Awards Banquet, Dr. Marion Ellis will provide an entertaining slide show of a beekeeper's lifelong collection of honey bee philatelic material including bee stamps, postage, and stationery, including (I'm told) letters from Langstroth himself!

APITHERAPY COURSE 2000

The Charles Mraz Apitherapy Course (CMAC) will run in conjunction with the preliminary course offerings of the Eastern Apicultural Society (EAS) meeting this summer. The CMAC will be held at Salisbury State University, Salisbury, MD. This 2-1/2 day course will provide two levels of study for individuals interested in the healing properties from products of the beehive. The information will be presented by a recognized and experienced group of practicing apitherapists, patients of apitherapy, beekeepers and medical practitioners.

As an extension of the mission of the American Society, CMAC was created to further establish a recognized body of knowledge about Apitherapy. With a working standard of ethics and safety,

more people can learn the most important information on improving health with honey bees.

The end of the course will be followed by a test about the course taught. Upon completion of the course, students will receive a certificate of attendance from AAS and those passing the test will receive a certificate of knowledge.

All educational materials and certificates will be provided by AAS. The cost for each level of training is \$300, with a 10% discount, \$270, signed up by July 1, 2000. Lunches and lodging are available through the University at special rates. For registration information, contact AAS Office Coordinator, Jennifer Conover, 937.364.1108; FAX 937.364.9109; email: aasoffice@in-touch.net.

For complete program details, downloading extra registration forms, and up to the minute changing information, see our official EAS 2000 Web Site at <http://iaa.umd.edu/mdbee/EAS2000.html> We welcome all beekeepers and hope that you share this website with your friends, local beekeepers, and listserv members!

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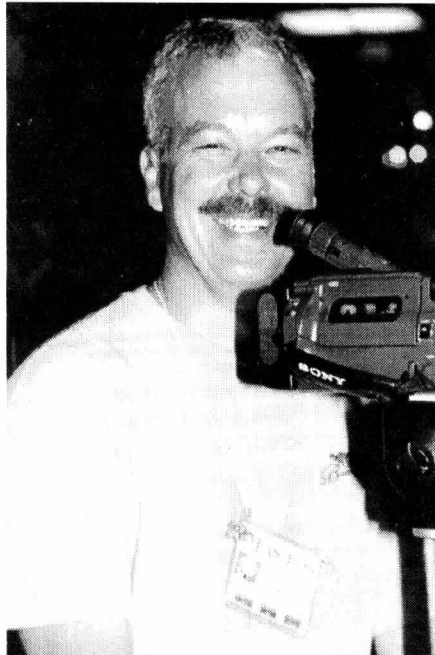
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CUT THIS NOTICE OUT—RIGHT NOW—AND PASTE IT TO YOUR REFRIGERATOR!

Now, less than one-and-one-half years away. (Wow, where does the time go?) This lovely campus is surrounded on three sides by water—the scenic Cape Cod Canal and Buzzards Bay. A short walk to the bus or train station, and only one-hour driving time from either T.F. Green Airport (PVD) in Providence, RI -or- Logan Int'l Airport (BOS) in Boston, MA. Yes, The Eastern Apicultural Society of North America, Inc. will offer a spectacular Short Course and Conference—the week of August 06-10, 2001—at the Massachusetts Maritime Academy, Buzzards Bay, MA. Excellent speakers and instructors; great food, lodging, entertainment and location; wonderful excursions and workshops; commercial vendors; and fantastic auctions too! DON'T miss this one! (Go on now, get those scissors; this one's a keeper.) LOADS of activities for the family, too. Whale watches, swimming (on our own beach), Canal Cruises, birdwatching, Plimoth Plantation, WHOI, Ocean Spray Cranberry World, Martha's Vineyard, Nantucket, walking or biking along the Cape Cod Canal, deep sea fishing, Boston Freedom Trail and New England Aquarium, New-

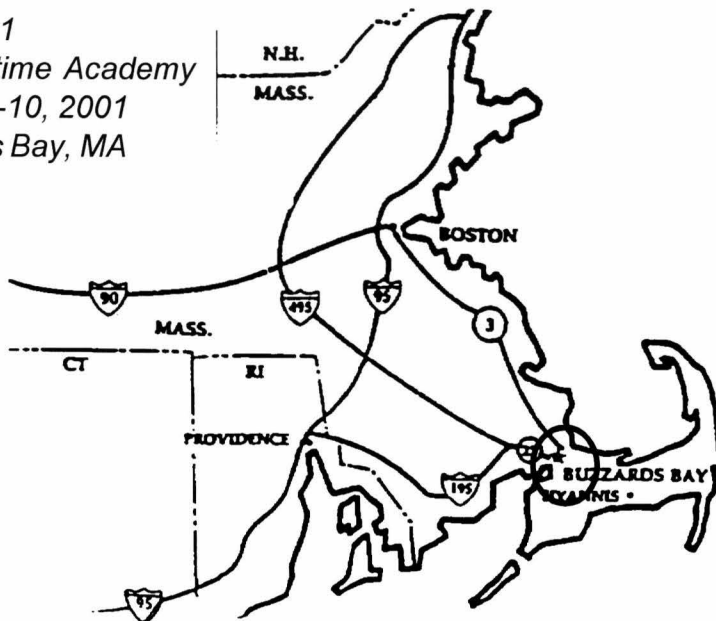


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EAS 2000 – THE PLAYERS

Dr. Nicholas Calderone - Dr. Calderone is an assistant professor of apiculture at the Department of Entomology at Cornell University in Ithaca, NY, where he has responsibilities in research and extension. Dr. Calderone began beekeeping in 1972 while an undergraduate at Ohio State University (OSU) in Columbus, Ohio. After graduation, he worked as a beekeeper and research technician at the OSU Bee Research Laboratory. Nick received a M.S. degree from Ohio State in 1985, where he studied behavior genetics of the honey bee with Dr. Walter Rothenbuhler. He continued these studies with Dr. Robert E. Page, Jr., and received his Ph.D. from the Ohio State University in 1988. After graduation, Dr. Calderone worked for 7 years with Dr. Shimanuki as a Research Entomologist at the USDA Bee Research Lab in Beltsville, Maryland, where he focused on the development of natural products for the control of varroa mites.

Mr. Bob Cole - Bob Cole is the owner of Pot O' Gold Honey in Todd, North Carolina. His beekeeping operation of 800 colonies provides pollination services in the surrounding area. In addition, Bob's bees are managed for honey production, including the much sought-after sourwood honey. Bob has been involved in beekeeping since the age of 3 and was taught the art of beekeeping by his two grandfathers. Bob has been an active member of EAS for many years. He became an EAS master beekeeper the first year that the society offered the exam in 1981. Bob served as EAS chairman of the board from 1985 to 1990 and has served in numerous other capacities for EAS.

Dr. Marion Ellis - Dr. Marion Ellis is an assistant professor of entomology at the University of Nebraska. He received his B.S. and M.S. degrees from the University of Tennessee in 1972 and 1974, respectively. Upon completing his M.S., he served as a Peace Corps volunteer in Peru and El Salvador, working as a teacher and extension specialist. He then spent 4 years at the North Central Regional Plant Introduction Station working on cage pollination of plant germplasm collections and then 15 years as the Nebraska State Apiculturist. Dr. Ellis returned to school and completed his Ph.D. in entomology in 1994. His dissertation examined the toxic effects of monoterpenoids on the honey bee and its tracheal mite parasite. His current research focuses on investigating novel products for controlling varroa mites and establishing mite treatment thresholds for the North Central Region.

Dr. Norman E. Gary - Dr. Gary has 50 years of diverse experience with honey bees including hobby and commercial beekeeping, research, teaching, and consulting for the entertainment industry. Dr. Gary obtained his Ph.D. in Entomology at Cornell University. He then worked at the University of California Davis as a research entomologist for 32 years. During his tenure, he taught various apiculture and entomology classes and conducted research on beekeeping behavior. Since that time, Dr. Gary has been doing consulting work for the television and film industry on bee related projects. He has served as a consultant or "bee wrangler" on feature films such as X-Files, Fried Green Tomatoes, Man of the House, Candyman, Candyman 2, Candyman 3, The Truth About Cats and Dogs, My Girl, Leonard Part VI, Beverly Hillbillies, The War, Walk in the Clouds, Invasion of the Bee Girls, Savage Bees, Terror Out of the Sky, and Deadly Invasion: The Killer Bee Nightmare. In addition, he has appeared on television shows with Johnny Carson, Jay Leno, Guinness World Records, and a host of other individuals.

Dr. John R. Harbo - Dr. Harbo is a research entomologist at the USDA Honey Bee Breeding, Genetics & Physiology Laboratory in Baton Rouge, Louisiana; he has held that position since 1971. His research has focused on instrumental insemination and selective breeding of honey bees. In his most recent work, he has developed methods for selecting honey bees for resistance to varroa mites. Dr. Harbo is a native of Minnesota who earned a PhD in apiculture at Cornell University under Dr. Roger Morse. He received the J. I. Hambleton award in 1996 from EAS and the Award for Apicultural Excellence from the American Association of Professional Apiculturists in 1997.

Dr. Roger Hoopingarner - Dr. Hoopingarner is professor emeritus at Michigan State University where he has been on the faculty for 39 years. Dr. Hoopingarner has conducted bee research on a variety of subjects including the metabolism of pesticides, genetic effects of pesticides on insects, system modeling of honey bee pollination, honey bee colony dynamics, European foulbrood disease, plant disease transmission through pollination, and varroa and honey bee population dynamics. He is currently president of the American Association of Professional Apiculturists and the Michigan Beekeeper's Association. Dr. Hoopingarner earned his Ph.D. at the University of Wisconsin where he studied genetic and environmental factors affecting honey bee queen production.

Dr. Wyatt A. Mangum - Dr. Mangum has kept bees for over 30 years, beginning at the age of ten. Currently, he manages 200 colonies. In addition, he maintains 30 observation hives where he conducts experimental work with queen cells and swarming, and bee behavior. Dr. Mangum writes a column on honey bee biology for the American Bee Journal and takes photographs of bees. Dr. Mangum has an interest in the history of apiculture. He owns an extensive collection of antique beekeeping equipment, including hives dating back to the 1840's and over 100 old smokers. Dr. Mangum's diverse collegiate education includes a B.S. in physics from Virginia Polytechnic Institute and State University, a M.S. in mathematics and a Ph.D. in genetics both from North Carolina State University. He currently teaches mathematics at Mary Washington College in Fredericksburg, Virginia.

Dr. Jeffery S. Pettis - Dr. Pettis is a research entomologist at the USDA Bee Research Laboratory in Beltsville, Maryland. He is currently conducting research on the control of parasitic mites, small hive beetles and American foulbrood in honey bees. Dr. Pettis completed his B.S. and M.S. degrees in entomology at the University of Georgia. He earned his doctoral degree at Texas A&M University supported by a research agreement with the USDA Honey Bee Research Unit in Weslaco, Texas. His work there focused on the reproduction and dispersal behavior of honey bee tracheal mites. Dr. Pettis worked as a postdoctoral associate at Simon Fraser University with Dr. Mark Winston where he studied the role of pheromones on honey bee behavior and crop pollination, and resistance mechanisms of honey bees to tracheal mites.

Dr. Hachiro Shimanuki - Dr. Shimanuki is a research microbiologist at the USDA Bee Research Laboratory in Beltsville, Maryland. "Shim", as he is known to most of his friends, is responsible for coordinating honey bee research between the USDA bee laboratories and other Federal agencies to ensure that new technology is

made available to the bee industry. In addition, he oversees the bee disease identification service performed by the Bee Research Laboratory. Shim is considered the dean when it comes to bee diseases and pests. He has worked tirelessly during his career to help beekeepers overcome disease and pest problems in their honey bee colonies. Dr. Shimanuki received his B.S. degree from the University of Hawaii and his Ph.D. from Iowa State University where he studied honey bees with Dr. Walter C. Rothenbuhler.

Dr. James E. Tew - Dr. Tew is an associate professor of entomology at the Ohio State University. Since 1978, Dr. Tew has taught classes, provided extension services, and conducted applied research on both honey bees and honey bee behavior. Additionally, he has written numerous beekeeping articles for beekeeping journals. Dr. Tew has traveled widely to observe beekeeping techniques and procedures. From 1987 to 1995, he served as the National Program Leader for Beekeeping for the USDA Extension Service, Washington D.C. Currently, Dr. Tew is conducting a regionalized cooperative extension beekeeping project with Auburn University in which basic Alabama extension responsibilities are conducted by Dr. Tew from Ohio. Dr. Tew is much sought after for his entertaining and educational lectures on beekeeping related topics. Dr. Tew earned his Ph.D. at the University of Maryland under the direction of Dr. Dewey M. Caron.

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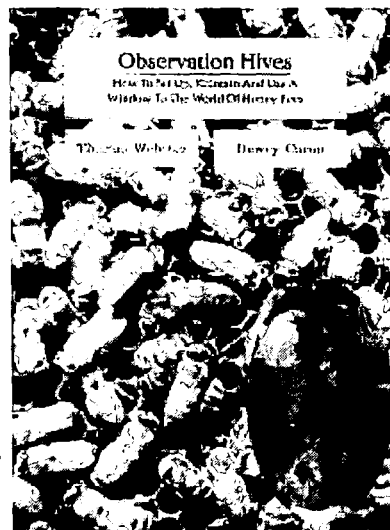
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POLLINATION POINTERS FROM GUELPH

The second annual pollination symposium was held in March 2000. This symposium was sponsored by the OBA's Ontario Honey Bee Pollination Association. Growers and beekeepers came together to discuss various subjects related to crops and honey bee pollination. Here are summaries of some of the presentations . . .

Status of the Beekeeping Industry in Ontario - Doug McRory, Provincial Apiarist, OMAFRA, Guelph, Ontario

The beekeeping industry has changed in the past 10 years. Varroa mites and tracheal mites have spread into and throughout Ontario, and as a result, the number of beekeepers, especially hobbyists, has gone down. The numbers have dropped from 115,000 colonies and 5,000 beekeepers 10 years ago, to 77,000 colonies and 4,000 beekeepers 2 years ago. Now there are only about 3,500 beekeepers, but the number of colonies has risen to 87,000. Presently, 90-95% of colonies have varroa mites, and 25% have both varroa and tracheal mites.

For the past six years, Dr. Medhat Nasr has been working for the OBA to develop short and long term solutions to the mite problem. Formic acid has been developed for use as a 'soft chemical' application, and has been made part of an integrated pest management (IPM) program. The recommended treatment program is formic acid in the spring and Apistan in the fall.

Beekeepers should not rely only on chemicals. Dr. Nasr has also been working on a breeding program to create and maintain lines of tracheal mite resistant honey bees. 22 queen breeders and producers have been participating in this ongoing project. Recently, traits for varroa mite tolerance (hygienic, grooming) have been incorporated.

Looking at the big picture, honey sales amount to 12 or 13 million dollars per year, while the value of pollination to agriculture is more than \$100 million. Obviously, this industrial sector needs to be better utilized. Pollination services must be sold without undercutting competitors, but without 'gouging' the customer.

The quality of the service must be controlled and guaranteed, but also with the guarantee of safety for the honey bees themselves.

Pollination of High Density Apple in Washington Dan Mayer, Professor, Washington State University, Prosser, Washington, USA

Trees and bees - they have a very important relationship. One provides food for survival, the other provides the pollination necessary for reproduction. Some varieties of apples, such as Golden Delicious or MacIntosh, can self-pollinate, but other trees, such as peach, apricot, or older apple varieties, require cross-pollination, which means that they need pollen from another, compatible variety. Bees are required to transfer the pollen in either case, though it is more critical in cross-pollination. Pollination must be planned in order to be successful. Pollinizers, the trees providing the pollen (e.g. crabapple), must be strategically placed for maximum efficiency of pollen distribution. Staggering them within and between rows, 15 feet apart, has been found to be most effective. Pollinizers must be compatible to main crop, bloom at the proper time (before and during the main crop bloom), be attractive to bees and they must also be compatible with bee behaviour and pollination (e.g. the same colour blossoms as the main crop). Pollinizers must also bloom profusely, and not take up too much space in the orchard.

From the beekeeper's perspective, bee colonies need to be strong, healthy and equalized before putting them into pollination. Washington regulations demand that each colony must consist of at least 6 frames which are 2/3 covered with bees (at 65°F) and one

queen. One method of determining colony strength is to count 75 incoming bees/minute at the hive entrance. This is, however, time consuming and not reliable.

Timing of pollination is a joint responsibility between the beekeeper and the grower. Bees should be in place 1 or 2 days before the king bloom. The king bloom is the first blossom to bloom in each bunch, and it produces the largest fruit. It only has a life of 1-2 days, so timing is important.

Colonies should be in the sun, raised off the ground, and placed in groups of 4-12, about 100 yards apart. This will encourage bee activity to begin earlier, and provide good coverage of the orchard.

The field force is the amount of bees out pollinating. It can be quantified by the number of bees/tree/minute. Each bee makes 6-7 trips each day, and each flower requires 40-50 bee visits to ensure cross pollination. Competition within the field force encourages bees to switch trees more often and is required for efficient pollination. The recommendations are 2 colonies/acre, and up to 4 colonies/acre for higher density apple orchards. If the weather is poor for bee activity, more colonies are required.

To determine if effective pollination is taking place:

1. The number of bees on the main variety and on the pollinizer should be similar.
2. The number of bees throughout the orchard should be more or less constant.
3. Check the king bloom to see if it has been set.
4. Check for fruit/set flowers on the sides of trees facing away from the pollinizers, and compare to the side next to the pollinizers.

Methods to supplement pollen in orchards with poor pollen sources:

1. Plant more pollinizers.
2. Use pollen inserts on pollinating honey bee colonies (must be serviced twice a day).
3. Strategically place bouquets of pollinizers in orchard.

Pollen Dispersal in Apples: Implications for Bee and Orchard Management - Paul Kron

The traditional row/block style of planting orchards does not facilitate cross-pollination. Bees tend to move along rows when foraging, not across rows, and so they tend to visit only one variety per foraging trip.

Each variety has specific genetic markers. Thus the parents of an apple can be determined using genetic fingerprint analysis of the seeds to identify the pollen donor source. Using this technique, it was possible to determine the movement of pollen in the orchard. Pollen was found to move across 18 rows, though most movement (75%) was in the first 3 rows. Along a row, pollen moves only as far as 5-7 trees.

Results can be improved by increasing the number of colonies per acre, decreasing the block size of individual varieties, splitting rows, and by careful selection and placement of varieties and pollinizers.

A Grower's Perspective of the Value of Honey Bees for Pollination - Vic Hann, Grower, Norwich, Ontario

For pickling cucumber growers, honey bee pollination is very important, and even more so with the changeover from hand picking to machine harvest. Machine harvest requires changing pollination management. Plantings should be staggered, but because of problems with heat in July and cold in September, a double crop can only be accomplished in more moderate areas, such as near Lake Erie in southwestern Ontario. Pickling cucumbers are machine har-

vested only once, all at the same time. As a result, the timing of pollination is critical to ensure uniform maturity and high quality cucumbers. It is known that bees are required, but the number of colonies per acre is not known. Presently, the recommendation is 1 colony/acre, but this figure was determined for hand harvested cucumbers. Many growers do not know how important it is to have enough bees. Pollination levels are different for different circumstances. Weather, for example, can change pollination requirements. And no matter how many bees are in a field, they will not perform if the weather does not allow it. Growers are not into beekeeping, so they need education in these areas. They may not necessarily know all the details of successful pollination, especially since pollination management continues to change. By working together and sharing knowledge, growers and beekeepers will be able to cooperate more easily to achieve maximum yields and benefits.

*This entire report was prepared and can be obtained from: Medhat Nasr, Ph.D., Research Scientist, Ontario Beekeepers' Association, Dept. Environmental Biology, University of Guelph, Guelph, Ontario, Canada N1G 2W1
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From The Colonies

News • Events • Gossip From The EAS Beeyard



EAS belongs to most of our region's State Associations in order to keep up with what's going on in the Colonies. If we don't yet belong to your Association contact Loretta so we can sign up. And, send us your newsletter so we can keep up. Following, in no particular order, are snippets we've found.

Carroll County Beekeepers, in Maryland will hold an EAS Master Beekeeper Prep Course June 21. Do they have all the answers? Email John DeUnger at johnandsteff@sun-link.com

Dewey Caron will speak at the Kentucky State meeting, along with Tom Webster, Phil Craft and Rick Suttan, covering everything from Varroa to pollination to EAS, June 24 in Owensboro. Contact Gerald Burchett at 270.928.4003 for information.

Jay Barthelmeus, EAS VP and soon-to-be President of the MA Federation of Beekeepers, announces the annual Pollination Plant Sale to be held in June. Proceeds go to Cape Cod Extension, EAS Research Foundation, and his home group, The Barnstable County Beekeepers. Call Jay for more.

Dr. Bob Berthold, candle maker supreme, will display his skills for the Essex County, MA Beekeepers, Sunday May 21 at the Bee Building of the Topsfield Fairgrounds. Want to watch? Call Alan Wilkins at 978.777.9404.

West Virginia holds their annual Honey Festival in Parkersburg September 9-10. Arts & Crafts, honey exhibits, candle making, a car show, hive demos, a baking contest and lots of music. Call 304.424.1960 for information.

Dewey's on the road again in September to the West Virginia Fall meeting at Cedar Lakes, September 29-30. Call 304.478.3675 for information.

EAS Director from Alabama **Margie Smith**, is still trying to get her state to adopt the Queen Honey Bee (mind you, not just the honey bee) as her state's insect. Some opposition is around, but we hope it works out.

Will **Michigan** and **Ontario** hold a joint meeting? This year? Seems like a good idea to us. Meanwhile, Ontario holds their summer meeting July 8 in Kingston. To find out more call Pat Westlake at 519.565.2622.

Bob Berthold's doing his beekeeping thing in June, too, at his Annual Summer Short Course. Along with Gary Bradshaw and past EAS Chair Jack Matthenius, June 23-25 at Mandell Hall at DE Valley College. Call Bob at 215.489.2285 for information.

Ohio State Beekeepers meet again under the tent, this time in Wooster, June 24. Lots of bees, Jim Tew's new barn, a fantastic bee garden and the honey bee museum, all for \$10, including lunch. Call Kim Flottum at 330.722.2021.

New York Master Beekeeper classes continue this summer. Suffolk County CCE Office, Riverhead, May 20-21; Erie County CCE Office, East Aurora, May 27-28; Tompkins County CCE Office, Ithaca, June 10-11. Call Nick Calderone.

Vermont Beekeepers Nuc Making workshop, May 27 at Yankee Kingdom Orchard in West Addition. Call 802.388.7571 for information.

Not listed? Not mentioned? Send a note to the Editor, Kathy Summers, 432 Baxter St., Medina, OH 44256. Bee part of the Colonies next time!

Just as we were going to Press, word was received that Craig Collison (son of our own Clarence & Sally Collison) had suffered a serious illness. Please keep this family in your thoughts and prayers. Craig has a long recovery ahead of him.

FRAME SPACERS SAVE TIME, MONEY AND WORK

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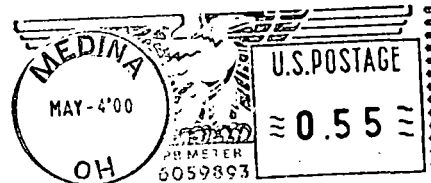
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