PROCEEDINGS
40th Annual
SOUTHERN FOREST INSECT WORK CONFERENCe
Seatrail Conference Center
Sunset Beach, North Carolina
July 31 - August 3, 1995

Stephen Clarke, Program Chairman
Coleman Doggett, Local Arrangements

Officers: 1994-95

Chairman .................................................. Fred Stephen (1993-1995)
Secretary-Treasurer ........................................ John L. Foltz
........................................................................ Ken Swain (1994-1997)
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Registration List and Sustaining Members, 1995

<table>
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<tr>
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<td>Ken Ward</td>
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<td>Jeffrey M Warren</td>
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Fig. 1. **Back:** Coleman Doggett, Gene Lessard, Wilson Edwards, Wes Nettleton, Pat Barry, Jim McGraw, Bob Anderson, Quintin McClellan.

**Middle:** Bobbe Fitzgibbon, Nancy Lorimer, Jim Hanula, Scott Cameron, Pete Lorio, Mike Remion, Bob Rabaglia, Bob Tichenor, Jiang-Hua Sun.

**Kneeling:** Stephen Clarke, Steve Oak, Rusty Rhea, Fred Stephen, Fred Hain, Gary DeBarr, Marita Lih.
Fig. 2. **Back**: John Foltz, Carl Fatzinger, Evan Nebeker, Bill Hoffard, Bob Loomis, Jim Meeker.

**Middle**: Wayne Brewer, David Kulhavy, Andy Boone, Jim Hyland, Terry Price, Richard Jernigan, Bill Otrosina

**Kneeling**: Bob Thatcher, Allan Bullard, Bob Bridges, Dave Drummond, Tim Tigner, Kier Klepzig.
Fig. 3. Back: David Gray, Steve Cook, Don Rogers, Joe Pase, Lynne Thompson, Arnie Drooz, Dan Kucera, Keith Douce, Bill Carothers, Jerome Grant, Jeff Warren. 
Middle: Rhonda Langston, Wayne Langston, Alex Mangini, Art Miller, Tanya Hanano, Janine Powell, Ken Swain, Rufina Ward, Kenneth Ward. 

### 40th SOUTHERN FOREST INSECT WORK CONFERENCE

Monday July 31 - Thursday August 3, 1995

Seatrail Conference Center  
Sunset Beach, NC 28468

#### Monday, July 31

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<tr>
<td>3:00 - 7:00 pm</td>
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<td>4:00 - 6:00 pm</td>
<td>State Pest Control Workers .................................................. Egret Room</td>
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<tr>
<td>6:00 - 7:00 pm</td>
<td>A. D. Hopkins Award Committee - Pete Lorio, Chair</td>
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<tr>
<td>6:30 - 8:00 pm</td>
<td>Mixer ......................................................................................... Jones/Byrd Pavilion</td>
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#### Tuesday, August 1

<table>
<thead>
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<tr>
<td>8:00 - 10:00 am</td>
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<tr>
<td>8:30 - 8:45 pm</td>
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</table>
| 8:45 - 9:30 pm | Opening Business Meeting - Fred Stephen, Chair  
|               | Exciting T-shirt giveaway                                           |
|               | 1996 North American Forest Insect Work Conference Update             |
| 9:30 - 10:15 pm | A. D. Hopkins Award Talk                                            |
|               | Forest Health - Past, Present, and Future.                          |
|               | Ken Swain, USFS Forest Health                                       |
| 10:15 - 10:45 pm | Break and Group Pictures                                           |
10:45 - 12:30 Concurrent Sessions

**Biological Control** .........................Loblolly Room
Moderator - Ken McCravy, Univ. of Georgia

Effects of adult nutrition on egg production and longevity of SPB
parasitoids. Tanya Hanano, Pat Mathews, and Fred Stephen,
Univ. of Arkansas.

Tree compounds as potential enhancing agents for gypsy moth
NPV. Steve Cook, USDA ARS.

Relative abundances of SPB and two common predators in relation
to infestation growth. Quintin McClellan, VPI&SU.

Survey of natural enemies of Nantucket pine tip moths in the coastal
plains. Barry Bai and Wayne Berisford, UGA.

Predation and SPB dynamics. John Reeve, SRS.

Effects of vegetation control on parasitoids of the Nantucket pine tip
moth. Ken McCravy and Wayne Berisford, UGA.

**Ecosystem Management Workshop** .............Cypress Room
Moderator - Robert Coulson, Texas A&M

Participants: Dave Meriwether, Rose Marie Muzika, Joan Walker,
and Gene Lessard, all USFS

12:30 - 1:30 Lunch (on you own)
1:30 - 3:00 Concurrent Workshops

**Gypsy Moth** .........................................................Loblolly Room
Moderator - Bobbe Fitzgibbon, Forest Health
Asian gypsy moth: current issues and activities. Terry McGovern, USDA APHIS
GypSES, a demonstration and development update. Susan Thomas, NEFES, and John Ghent, Forest Health
Gypsy moth by satellite. Bruce Kauffman, Tenn. Dept. of Agriculture

**Effects of Intensive Management on Forest Insects**
.................................................................Cypress Room
Moderator - Scott Cameron, Union Camp Corp.
Effects of tree physiology on insects. Phil Dougherty, USFS
Effects of cultural treatments on tip moth infestation levels and loblolly pine stem volumes. Jimmy Seckinger, Union Camp
Effects of fertilization, weed control, and water stress on NPTM populations and damage. Jianghua Sun, UGA/USFS
NPTM control with aerial insecticide applications. Scott Cameron, Union Camp.
Effects of intensive management practices on scale insect outbreaks. Stephen Clarke, Forest Health
*Oracella* mealybug infestations and natural enemies on loblolly pine. Jianghua Sun, UGA/USFS
Effects of prescribed fire on bark beetle infestations. James Meeker, Florida Div. For.

3:00 - 3:30 Break
Concurrent Workshops

**Exotic Pests** ........................................... Loblolly Room
Moderator - Rusty Rhea, Forest Health

Trouble at Sweat Heifer: beech bark disease in the Great Smoky
Mountains National Park. Steve Oak, Forest Health and Kristine
Johnson, US Park Service.

Hemlock woolly adelgid impacts on the Shenandoah National Park.
Keith Watson, Shenandoah National Park.

Population dynamics of HWA in southwest Virginia: estimating
stage-specific duration and mortality. David Gray and Scott
Salom, VPI&SU.

Common pine shoot beetle, *Tomus piniperda*. Pat Barry, USFS

**Non-pest Related Research in Southern Forests**

.......................................................... Cypress Room
Moderator - James Hanula, SRS

Impact of *Bt* eradication spraying on non-target insects and birds.
Marita Lih, Fred Stephen, and K. Smith, Univ. of Arkansas.

Effects of habitat corridors on butterfly movement: an experiment in
a managed pine plantation. Nick Haddad and H. R. Pulliam,
UGA.

The American burying beetle: don’t bury me cause I’m not dead yet.
Stephen Clarke, Forest Health and Craig Rudolph, SRS.

Ecosystem management on the Ouachita/Ozark National Forests -
insects and seed production in shortleaf pine and white oak. Alex
Mangini, Forest Health, Roger Perry, SRS, Jim Hanula, SRS
and R. Wittwer, Okla. State Univ.

Effect of silvicultural practices on the abundance and diversity of
soil arthropods. Robert Coulson and Simon Bird, Texas A&M.

Effects of prescribed burning on the arthropod fauna in longleaf pine
stands. K.C. New and Jim Hanula, SRS.

Arthropod diet of the RCW. Jim Hanula, SRS, and K.E. Franzreb,
Clemson.
7:00 - 9:00  Poster Session and Social .........................Loblolly Room

Natural enemies of the gypsy moth at the leading edge of its invasion into the southern U.S. F. Hastings, F.P. Hain, H.R. Smith, and T.M. Odell.

Draft forest health maps for the southern Appalachian assessment. Brian Spears.


Incidence and seasonality of insect populations on northern red oak in seed tree orchards. J.F. Grant, C. Stanton, L.R. Barber, S.E. Schlarbaum, and P.L. Lambdin.


Airborne video in Region 8 - raster and vector integration. R. Spriggs and B. Silvey.

Wednesday, August 2

8:00 - 9:30  Forest Insect Suppression and Research - Past, Present and Future. ...........................................Loblolly Room
Moderator - Stephen Clarke, Forest Health
FPM. Nancy Lorimer, FPM WO.
FIDR. Bob Bridges, FIDR WO.
States. Tim Tigner, Virginia Dept. of Forestry.
National Center of Forest Health Management. Dick Reardon, NCFHM.
Universities. Fred Stephen, Univ. of Arkansas.

9:30 - 10:00  Break

10:00 - 10:30  Federal funding of forest insect research and suppression ..................................................Loblolly Room
Question and answer session via phone link with Congressman Charles Taylor, Republican-NC.

10:30 - 12:00  Open discussion of the future of forest insect suppression and research .................................Loblolly Room
Moderator - Stephen Clarke, Forest Health
Panel and audience discussion.

12:00 - 1:00  Lunch (on your own, again)
1:00 - 5:00  
**Field trip - Tour of Wilmington Port**  
A look at pest inspection practices.  
Buses leave at 1:00 pm.

7:00 - 9:00  
**Banquet**  
A sumptuous feast followed by the ever-popular Photo Salon with stylist Jerry Lenhard. Also featuring a short film on gypsy moth invasion, by Roger Holman.

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**Thursday, August 3**

8:00 - 9:30  
**Concurrent Sessions**

**Forest Insect Semiochemical Research**  
Loblolly Room  
**Moderator** - Don Grosman, VPI&SU  
Pheromones of the white pine cone beetle, *Conophthorus piniperda*. Gary DeBarr, SRS.  
Temporal and geographic variation in semiochemicals released from SPB infested logs. Don Grosman, Bill Ravlin, and Scott Salom, VPI&SU.  
Current and future research relating to 4-allylanisole. Brian Strom and Jane Hayes, SRS.  
Status of verbenone TDP. Bill Upton, TFS.

**Insect-Disease Interaction**  
Cypress Room  
**Moderator** - Nolan Hess, Forest Health  
Root disease, insect, and fungal interactions. William Otrosina, SRS.  
Mediation of insect-disease interactions by host stress. Kier Klepzig, SRS.  
Root-fungal interactions associated with site conditions and SPB attack. Nolan Hess, Forest Health.  
Oak wilt in Texas. Joe Pase, TFS.

9:30 - 10:00  
**Break**
10:00 - 11:30 Concurrent Sessions

- Forest Health Monitoring - Vision and Reality
  - Moderator - Bob Loomis, FHM
  - FHM Vision. Bob Loomis, FHM.
  - General discussion.

- Bark Beetle Host Selection
  - Moderator - Jane Hayes, SRS
  - Workshop/discussion.
  - Participants: Pete Lorio, Brian Strom, Kier Klepzig, Carl Fatzinger, Rich Goyer, and Evan Nebeker.

11:30 -12:00 Final Business Meeting

12:00 Adjourn
Minutes of the Opening Business Meeting
Tuesday, 1 August 1995
Seatrail Resort & Conference Center, Sunset Beach NC

Chairman Fred Stephen called the opening business meeting of the 40th Southern Forest Insect Work Conference to order at 8:45 am. We were then welcomed to Sunset Beach and given a brief introduction to the area's attractions and dining opportunities.

The chairman asked that first-time participants be introduced. Following these introductions the members shared news of job changes and retirements. Don Grosman is joining the Texas Forest Service following completion of his degree at Virginia Tech. Don Kinn, Jack Nord, and Harry Yates have retired from the Forest Service. The members then stood for a moment of silence in remembrance of Charlie Chellman, charter member who passed away in Tallahassee, Florida last winter.

Secretory-treasurer John Foltz reported that minutes of the 39th SFIWC in Lafayette, Louisiana were in the Proceedings being distributed at the registration desk. Income greatly exceeded the expenses of the meeting so that we now have a healthy cash reserve and a year-end balance of $4,685.71. We thank Georgia Pacific Corp., Phero Tech Inc., Union Camp Corp., and Weyerhaeuser Co. for their financial support of that meeting. We also thank Temple Bowen and Novo Nordisk BioChem North America for underwriting yesterday's mixer at this, the 40th SFIWC.

Coleman Doggett, local arrangements chairman, reminded participants who wanted continuing education credits for the Society of American Foresters or North Carolina pesticide licensing to be sure they had filled in the appropriate forms at the registration desk. Members who desire rides to the airport at the conclusion of the conference should also sign up at the registration desk.

Stephen Clarke, program chairman, informed members of several changes in room assignments for the concurrent workshops and provided specific information on the place and time of the poster session. He announced that Carl Fatzinger was the lucky winner of a Houston Rockets T-shirt, selected randomly from those persons who replied to his January request for program suggestions.

Committee Reports

LOSSES CAUSED BY FOREST INSECTS. Bobbe Fitzgibbon distributed and highlighted the report on losses for calendar year 1994. Unfortunately, some SPB data were omitted from Table A in the final printing; revised data will be available at the closing business meeting.

THESIS AND DISSERTATIONS. Dave Kulhavy stated that he is exploring the possibility of an internet web site listing the theses and dissertations on forest insects.
COMMON NAMES. Alex Mangini reported that he had received proposals for the addition of Loblolly Pine Mealybug and Southern Pine Mealybug for addition to the ESA list of common names. There was some discussion that each of these names had been used for more than one species. Members were urged to convey their opinions to Alex over the next 2 days for a report and possible vote at the closing business meeting.

HISTORY. No report.

PHOTO SALON. Jerry Lenhard asked that all persons planning to submit slides into this year's photo salon get their entries to him immediately so that the judges could begin their evaluations. He announced that the Photo CD-ROM of southern forest insects will be available by the end of the year for a price of about $25.

HOPKINS COMMITTEE. Peter Lorio introduced two proposals from the A. D. Hopkins Award committee for discussion and voting at the final business meeting. The first proposal is that no award be given in 1996 owing to the North American Forest Insect Work Conference taking the place of our regional meeting next year. The second proposal is that nominations be valid for 3 years rather than just one year.

Old Business

Evan Nebeker announced that the 2nd North American Forest Insect Work Conference is scheduled for 8 - 12 April 1996 at the St Anthony Hotel in San Antonio, Texas. He displayed the beautiful logo in which North America is encircled by the antennae of a longhorn beetle. The theme for the conference is "Vision 20/21," indicative of the workshops and plenary sessions which will look back at the past and look forward to the future.

New Business

Fred Stephen presented the Frontalis Cup to Bob Coulson for winning the preconference golf tournament with an excellent score of 77.

Chairman Fred Stephen announced the nominating committee for officers to be elected at the final business meeting. Recommendations for counselor should be given to Jim Hyland and suggestions for chairman can be given to either Wes Nettleton or Fred Stephen.

The opening business meeting adjourned at 9:25 am.

A. D. Hopkins Award

Chairman Pete Lorio announced that the committee had selected Fred Hain as the 1995 recipient of the A. D. Hopkins Award. Fred has had a distinguished record of research and service for over 20 years as a faculty member of the Entomology Department at North Carolina State University. Pete then presented Fred with copies of an A. D. Hopkins photograph and his letter of appointment as West Virginia entomologist, both in a frame of wormy chestnut constructed by Gary DeBarr.
Pete Lorio next introduced Ken Swain, 1994 recipient of the A. D. Hopkins Award, who then talked about the past, present, and future of the Forest Health Unit, based on his 34 year career in the U. S Forest Service. Ken concluded his presentation by stating he was certain of several things with regards to the future: the unit's name would change and the southern pine beetle and gypsy moth would continue to be serious pests.

Minutes of the Final Business Meeting
Thursday, 3 August 1995
Seatrail Resort & Conference Center, Sunset Beach NC

The meeting was called to order by Chairman Fred Stephen at 11:30 am.

The secretary-treasurer reported that about 100 people were registered for this work conference. He then apologized to the chairman and the members for failing to update the title page of last year's proceedings and list Fred Stephen as the work conference chairman for the period 1993 - 1995.

The chairman and membership thanked Coleman Doggett and his staff for the fine local arrangements and Stephen Clarke for the stimulating and informative program.

Committee Reports

LOSSES. Bobbe Fitzgibbon distributed a revised Table A with the correct information of SPB-caused losses for CY 1994.

COMMON NAMES. The proposal for common names for two mealybugs was withdrawn owing to already published uses of these names for two other species of mealybugs.

PHOTO SALON. Jerry Lenhard extended his thanks to Arnie Drooz and Rich Goyer for judging the slides entered in the 1995 photo salon. He encouraged members to plan now for the photo salon at the 1996 NAFIWC.

A. D. HOPKINS AWARD. A discussion of the items presented at the opening business meeting resulted in the following actions:
1. Motion approved that the next award be in 1997, not at the 1996 NAFIWC
2. Motion that there be no changes in nominating procedures was defeated.
3. Moved and approved that nominations be valid for 2 years, with nominator having the option to revise and resubmit if desired.
4. Moved and approved that the nominations submitted in 1995 be included for consideration in 1997.
Elections

Andy Boone was nominated for Counselor and approved by acclamation. Richard Goyer was nominated and approved by acclamation as the SFIWC Chairman for the upcoming term.

New Business

Moved and approved that terms of office for all officers be extended for one year owing to the 2nd NAFIWC replacing the SFIWC in 1996.

Bob Coulson agreed to be Program Chairman for the 1997 SFIWC.

Wayne Brewer offered to host the 1997 meeting on the Alabama Gulf Coast; Jim Meeker offered the Florida Panhandle, and Mike Remion offered Charleston SC. First vote resulted in a tie for Florida and SC. Second vote favored Charleston. Mike Remion will head local arrangements for August 1997.

Announcements

Stephen Clarke informed the members of the Dixon Bunt Scholarship at Stephen F. Austin State University. Proceeds of this endowed fund will be used to assist students majoring in environmental education.

Bob Thatcher provided a brief description of the Southern Appalachian research consortium. Members should contact Bob for more information.

Chairman Fred Stephen thanked all for attending and participating in the 40th annual SFIWC. The members similarly gave the chairman a round of applause for his leadership during the past two years.

Meeting adjourned at 12:05 pm.

Minutes of the Executive Committee Meeting

Thursday, 3 August 1995
Seatrail Resort & Conference Center, Sunset Beach NC

Meeting called to order at 12:07 pm by Chairman Rich Goyer. Present were Jim Hyland, Ken Swain, Andy Boone, Coleman Doggett, Lynn Thompson, Pete Lorio, and John Foltz.

There was a quick review of the jobs of the various committees. Chairman Goyer will contact committee chairs regarding their desire to continue.

Bobbe Fitzgibbon had indicated that CY 1995 Losses Report would be ready for distribution at the April, 1996 NAFIWC.

Meeting adjourned at 12:20 pm.
Treasurer's Report, CY 1995 - CY 1996

SFIWC Income & Expenditures
January 1, 1995 – December 31, 1996

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Account Balances, 12/31/96
Barnett Bank, Gainesville, account 1500056404 $5,354.90
Petty Cash                                           119.31   $5,474.21

John L. Foltz
Secretary-Treasurer
Historian Report

Meeting Forty
Southern Forest Insect Work Conference
1-3 August 1995
SeaTrail Golf Resort and Conference Center
Sunset Beach, North Carolina

This is our 40th Southern Forest Insect Work Conference. It is the third time that we have met in the great state of North Carolina.

It is interesting that this is only our third visit to North Carolina since many forestry agencies and educational institutions are located in the State. These include the Southeastern Forest Experiment Station and Forest Pest Management at Asheville; Duke University at Durham; North Carolina State University at Raleigh and the North Carolina Division of Forestry at Raleigh. The Conference was initially organized by R.J. Kowal with the Forest Service at Asheville along with L.W. Orr at Gulfport, MS, yet it took 8 years before the conference came to North Carolina!

Our first visit to North Carolina in 1963 was at Raleigh at the Sir Walter Hotel for the opening day and work sessions on the second day at the newly completed Harrelson Hall on the North Carolina State University campus. Attendance was 72. The afternoon of the final day was spent touring the relatively new Forestry Sciences Laboratory at the Research Triangle Park. Chairman was L.O. Warren of the University of Arkansas. Secretary-treasurer was E.P. Merkel and E.A. Osgood, Jr. was program chairman: both with the Southeastern Forest Experiment Station. Counselors were J.F. Coyne, USFS; C.L. Morris, Virginia Division of Forestry; and L.L. Hyche, Auburn University. The Conference considered, then tabled, an invitation from the Western Forest Insect Work Conference to join with them in an International Forest Insect Work Conference meeting at Denver, CO in 1965!

Our second meeting was at Asheville, NC on 29 July to August 1, 1985. Attendance was 99. Conferees toured the Biltmore House where an evening banquet provided a setting for announcing the second A. D. Hopkins Award winner, C.W. Berisford with the University of Georgia. Conference Chairman was R. Billings with the Texas Forest Service; Secretary-Treasurer was W. Hoffard with Forest Pest Management of the USFS and counselors were R. S. Cameron, Texas Forest Service; W. Dixon, Florida Division of Forestry; W. Nettleton, USFS. Julie Weatherby was program chairman. Robert Thatcher was recipient of the "famed" Ethical Practices Award for allegedly rearranging the lettering of the hotels outside sign to read Southern Forest Insect Work Conference! After 14 years this award, established at Atlanta in 1972, would be discontinued following the Asheville Conference.
Although not a charter member I have attended a vast majority of the conferences since the Savannah, GA conference in 1958. During this period I have been privileged to have acted as your local arrangements chairman several years; program chairman in 1965 at Gainesville, FL; your Secretary-Treasurer for seven years (1965-1971); and your Chairman in 1972 at the Atlanta, GA and 1973 Jackson, MS meetings. Since 1979 I have been your Historian, a responsibility I have enjoyed greatly. In this conjunction two SFIWC histories have been published in the Journal of the Georgia Entomological Society documenting conference years 1-15 and 16-25.

With my retirement in September of 1994 it appears that my annual attendance to future Conferences will be less predictable (however I do hope to attend future meetings). Therefore I wish to submit my resignation as your Historian effective this year so that the office may be passed on to another Conference member.

A few parting comments regarding the importance of having a Conference Historian. As I look back over the past 38 years there are many who participated in southern forest entomology who are lost to history. Maybe their publications and names are in the literature but few can tell anything else about them. Where and when they were born, where did they go to school, location and agencies where they worked, significant awards and/or their most significant contributions to entomology, etc. Few today know any of these facts about our co-founders R.J. Kowal and L.W. Orr (Orr is now deceased), yet they are important figures in our entomology history. About 10 years ago I proposed to the Conference that we begin developing such a data base on all forest entomologists in the South. Unfortunately with the lack of action details about another generation appear lost to history.

I suggest that the Conference again consider establishing such a Southern Entomologist Biographical Data Base. The value of such a data base would become increasingly valuable to future generations of entomologists. We can learn and be energized with a knowledge of our roots!

Respectively submitted,

HARRY O. YATES III
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