



# Horticultural Inspection Society Central States Chapter

*Making Professionalism a Part of Every Effort*

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## *PRESIDENTS MESSAGE*

### 31ST ANNUAL HORTICULTURAL INSPECTION SOCIETY CENTRAL CHAPTER MEETING, WICHITA, KANSAS - OCTOBER 22 - 25, 2001

Well, another season is coming upon us. Time to go through stacks of paper that have accumulated on everyone's desk. Of course, we've all saved our notes from the October meeting and are just waiting to go out and apply all of the new knowledge.

Jon Vogt alerted us to the importance of watching out for the fire ants being transported in nursery stock. Bill Schaupp gave us the latest information on pine pests. Margery Daughtrey updated our group on diseases in greenhouse-grown crops. Ned Tisserat helped us with shade tree problems. USDA brought us up-to-date on exotic pests. Dan Hutchins gave us great tips on how to properly document events that could help us in a court of law. Bill Scott presented noxious weeds in nursery stock. Tom Sim talked on the future of regulating non-quarantine pests. Steve White gave excellent tips on how to get great pictures of insects and diseases.



Steve White

Now that we're armed (and maybe a bit dangerous) with all this information, we need some warm weather to try it out, hopefully Mr. Groundhog is wrong!

Our next meeting will be in Minnesota. Steven Shimek is diligently working and says it will be the best one yet! I will see all of you there. Until then, keep in touch on HIS-Central@yahoo.

Sincerely, Cherie Copeland - President HIS Central Chapter

## Member States

Illinois,  
Indiana,  
Iowa,  
Kansas,  
Kentucky,  
Michigan,  
Minnesota,  
Missouri,  
Nebraska,  
North Dakota,  
Ohio,  
South Dakota,  
Wisconsin

## Membership Challenge

As new staff is hired, staffing changes occur or budget shortfalls or retirements happen, many potential and past members become uninvolved and uninformed. **This is a challenge to each state to make sure all staff committed to "Making Professionalism a Part of Every Effort" update their contact information and pay their HIS-Central membership dues.** Dues notices have been sent. Please invest in your profession and encourage your colleagues to do the same.

# MINUTES OF THE HIS BUSINESS MEETING

## THURSDAY, OCTOBER 25, 2001

Don Orton, Illinois, H.I.S. President, called the 2001 business meeting to order at 8:00 a.m.. He thanked the various people who volunteered to be on committees.

Roll call was given by Susan Ehlenbeck, Missouri, H.I.S. Secretary. States present: Illinois, Indiana, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska. States not present: Iowa, Ohio, North Dakota, South Dakota and Wisconsin.

Minutes from the 2000 H.I.S. business meeting were distributed. A motion was made by Vicki Wohlers, NE and seconded by Cheri Copeland, KS, to approve the 2000 minutes. Motion carried.

The Treasurer's Report was given by Mark Cinnamon, IL, H.I.S. Treasurer. PLEASE NOTE: Treasurer's report submitted after the meeting (December 18, 2001):

A motion was made by Vicki Wohlers, NE, and seconded by Carl Harper, KY, to accept the Treasurer's report. Motion carried.

### AUDIT COMMITTEE

The 2001 Audit Committee was comprised of David Johnson, MO, Larry Hanning, MO, and Steven Shimek, MN. David Johnson reported that all of the treasurer's books are in order. A motion was made by Charles Farris, MI and seconded by Vicki Wohlers, NE, to accept the Audit Report. Motion carried.

### CENTRAL PLANT BOARD (CPB) 76th ANNUAL MEETING REPORT, Lexington,

KY, FEBRUARY, 2001

Carl Harper, KY, attended the 76th annual meeting of the CPB in Lexington, KY, in February 2001. He reported that due to providing support for the whole program and meeting, he was unable to provide us with much information of this meeting.

Vicki Wohlers, NE, added that we should follow Tom Simms suggestions of inviting a Central Plant Board member to our H.I.S. meeting each year to give us a report of their business meeting, so that we will stay updated on CPB info, even if similar circumstances occur in the future.

### 2001 INTERSTATE GROUP INSPECTION, Missouri and Illinois

Susan Ehlenbeck, MO, reported that the 2001 interstate group inspection was not held this year due to budget cuts in so many participating states. Susan will attempt to set it up for 2002 with IL, or with KS.

### H.I.S. CENTRAL CHAPTER NURSERY INSPECTORS GUIDE (MANUAL)

Bill Hilbert, KS, reported that all copies he previously had printed had been sold. He said he planned to do another print before May. He also reported that the additions of two-lined chestnut borer, and foliar nematodes will be made as soon as they are completed. He mentioned that the regulatory suggestions for the two-lined chestnut borer and foliar nematodes had been approved by the Central Plant Board. He also reminded us that printing costs are about \$42-\$43 and that after his retirement (planned in about three years) that someone else would have to undertake this printing and managing task.

Larry Hanning, MO, suggested that lesser known pests, such as White Pine Midge, be added to the manual. Cheri Copeland, KS, added that we include new pests of unknown origin or injury to our website. Bill Hilbert, KS, added that while many pests have regulatory significance, it was not a good idea to include them in the H.I.S. Manual until we had good, complete information. Larry Hanning felt that making this information available for others would stimulate thought on the subject and hopefully provide us with more information on these pests. Charles Ferris,

MI, pointed out that other chapters are adding information to their websites or manuals, and suggested that we use their information instead of putting efforts into rewriting information for the same pests.

Vicki Wohlers, NE, thanked Bill Hilbert for his continuous work on the H.I.S. Manual.

### ROBERT MCADAMS AWARD NOMINATION/CARL CARLSON AWARD

Bruce Cummins, IN, was awarded the Robert McAdams H.I.S. Award as per his selection at the 2000 meeting. Susan Ehlenbeck, Secretary, along with Don Orton, President, presented him with the award and thanked him for his service.

A single nomination was presented and accepted by the chapter. After the presentation of the nomination, Charles Farris, MI moved, and Julia Thompson, MO, seconded that nominations be ceased so we could vote on the award recipient. Bill Hilbert, KS was unanimously nominated for, and voted to be this years recipient of the Robert McAdams Award. Bill Hilbert will be forwarded to the Central Plant Board president as our suggested nominee for the Carl Carlson Award.

### H.I.S. STANDARDIZATION OF NURSERY INSPECTION TECHNIQUES COMMITTEE REPORT

The H.I.S. Standardization of Nursery Inspection Techniques Committee consists of Vicki Wohlers, NE; Charles Farris, MI; Bill Hilbert, KS; Bill McAdams, IA; Don Orton, IL; and Chuck Stoltenow, IA. Vicki Wohlers reported that she had received a letter from Idaho last year requesting guidelines for sampling, and that this has not yet been completed. She added that Interstate Inspections are very valuable in completing this process. Vicki will continue to work with her committee and have a draft available at next year's H.I.S. Steve Shimek, MN, explained that the suggested inspection techniques in the H.I.S. Manual had some areas which could be misinterpreted, and suggested that we avoid any wording which is not precise and easy to interpret.

### NEW BUSINESS

### RESOLUTIONS COMMITTEE

The 2001 Resolutions Committee was

(Treasurers Report 1-18-01 to 12-18-01)	
Balance forward (1-18-2001)	\$5003.81
Income	
Dues Paid	\$330.00
Manual Sales	\$1097.50
Total Income	\$1427.50
Expenses	
Bob McAdams Award	\$139.78
HIS Mtg Expense 2002	\$2412.26
HIS 02 Mtg Reg Fees	\$-1365.00
Postage and delivery	\$90.57
Total Expenses	\$1277.61
Total Income less Expenses	\$149.89
Bal forward 1-18-01	\$5003.81
Income less Expenses	\$149.89
Balance forward 12-18-01	\$5153.70

comprised of Charles Farris, MI, Molly Mott, MI and Stacy Chic, WI. Charles Farris read the following two resolutions:

#### **RESOLUTION #1**

Whereas, the 31th annual in-service training of the Horticultural Inspection Society, Central Chapter was held in Witchita, KS, on the 22nd through the 25th of October, and whereas, the meeting was hosted by the Kansas Department of Agriculture, and whereas, the meeting accommodations and program were of excellent quality.

Therefore, be it resolved that the Horticultural Inspection Society, Central Chapter wishes to express its appreciation and sincere thanks to the Kansas Department of Agriculture, and its staff, especially the Plant Protection & Weed Control Personnel and vice-president Cheri Copeland, who made the 31th meeting a success.

Adopted: October 25, 2001

#### **RESOLUTION #2**

Whereas, the 31th annual in-service training of the Horticultural Inspection Society, Central Chapter was held in Witchita, KS, on the 22nd through the 25th of October, and whereas, the state of Kansas graciously provided transportation and drivers during the annual meeting.

Therefore, be it resolved that the Horticultural Inspection Society, Central Chapter wishes to express its appreciation to the Kansas Department of Agriculture.

Adopted: October 25, 2001

Bruce Cummins, IN, made a motion to accept the resolutions as read. Carl Harper, KY, seconded. Motion carried.

#### **NOMINATIONS COMMITTEE AND 2002 HOST STATE**

The 2001 Nominations Committee was comprised of Carl Harper, KY, Steve White, KS, and Bill Hilbert, KS. Carl Harper read the following list of suggested officers for next year:

President: Cherie Copeland, KS  
Vice President: Steven Shimek, MN  
Secretary: Susan Ehlenbeck, MO  
Treasurer: Mark Cinnamon, IL  
Editor: Steven Shimek, MN

Larry Hanning, MO made a motion and

Charles Farris, MI seconded to accept the nominations. Motion passed. Steven Shimek, MN, accepted to host the 2002 H.I.S. Central Chapter meeting. Dates were tentatively set for October 21-24, 2002, in Minnesota.

Don Orton, president, graciously thanked officers who have served this year.

Joe Collins, KY, is planning to attend the Southern Chapter H.I.S. meeting this year, we would like to get a report from him or others who attend this meeting. Bill Hilbert, KS, reminded the group that we had decided to make sure someone from our group attends the other meetings even if we need to cover their expenses, and suggested we make plans to do so.

#### **H.I.S. CENTRAL CHAPTER REPRESENTATIVE TO THE CENTRAL PLANT BOARD MEETING**

After some discussion it was decided that the H.I.S. Central Chapter representative to the Central Plant Board meeting in 2002 in South Dakota be Vicki Wohlers, NE. Bill Hilbert, KS, mentioned this was a good idea since she had attended this business meeting and could bring up items of concern at that meeting.

#### **OTHER BUSINESS**

Steve White, KS, is working on updating our website. This includes links, history, a list server so everyone gets it, articles pictures, discussion of Central and National Plant Board information, book information, applications for manuals, and any items of interest throughout the year. Steven

Shimek, MN explained they need updated email addresses and information through the year to help get it up and running. He explained that it was always the same people at the meetings and doing the work, that it would be nice to get involvement from other members also. Others agreed. We discussed cleaning up the membership list, having a list of active and inactive members, and asking department heads of each state for updates. Larry Hanning, MO, asked about the incentive to paying dues and being an active member if they can get all the information off our website. Vicki Wohlers, NE, added that paid subscribing or active members would get all the information through our list server. We could email all inactive members reminding them to pay their \$15/year dues to at least be subscribing members, in order to get the up-to-date information. She concluded that anyone wishing to be a subscribing member is welcome to get the information as long as they have paid their dues to bring money into the organization.

The gavel and Roberts Rules of Order was passed to the new H.I.S., Central Chapter President, Cheri Copeland, KS. Cheri thanked Don for his service throughout this year as president.

A motion was made by Carl Harper, KY, and seconded by Vicki Wohlers, NE, to adjourn the meeting. Motion carried. Meeting adjourned at 9:45 a.m.

Respectfully submitted,

Susan Ehlenbeck  
H.I.S. Central Chapter Secretary

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## **Membership Challenge Revisited This Means YOU!**

We want to send welcome invitations to new potential members that may have just joined your program, and keep existing members up to date. I am asking that each state designate a person in their program to send me a copy of the names, addresses, phone, fax, and emails so that we can keep up to date. I have received info from a few states, but there are still several that need to update. My fax number is 636-745-8049, or mail it to me—Susan Ehlenbeck, attn HIS Secretary, 1231 Edgar Lane, Wright City, MO 63390

Don't forget to check our website at [www.grapevine.net/~scwhite/HIS/](http://www.grapevine.net/~scwhite/HIS/) for information.



# Field Observations of Ultra-fine Oil Treatments on Pine Needle Scale, *Chionaspis pinifoliae* (Fitch), and Scotch pine, *Pinus sylvestris* (L).

TODD S. VOSS

Iowa Department of Agriculture and Land Stewardship, 1020 Grove Avenue, # 8, Garner, Iowa 50438, (641) 923-0080, tvoss@ncn.net

PINE NEEDLE SCALE is common throughout Iowa and the Midwest. The first-generation "crawler" is the life-stage most vulnerable to chemical control. In northern Iowa, the first hatch of pine needle scale has been observed anytime from the first week to the fourth week of May. To assist in timing control, indicator plants can be used. It has been observed that chemical application to target first generation crawlers should begin when bridal wreath spirea (*Spirea vanhouttei*) is in full bloom (Orton, 1989). Insecticide controls for pine needle scale may also continue up to the time *S. vanhouttei* is in late bloom, but generally should be done by the time crawlers have advanced into the "yellow" stage. Insecticide control becomes ineffective as scales begin to produce a white waxy covering. Bridal wreath spirea has been a consistent indicator for timing the first-generation control of pine needle scale crawlers regardless of location in northern Iowa. Additional field records and observations in excess of 25 years by several other nursery inspectors from surrounding states and within the state of Iowa have confirmed this finding as well.

For many Iowa Christmas tree and nursery growers, other field work competes for their time in May when treatment may be the most effective. Several nursery and Christmas tree growers have inquired about a more flexible and "user safe" control strategy. Ultra-fine oil seems to be a good candidate for control. Some have expressed concerns of phytotoxicities, especially when the new growth is succulent and actively growing. This led me to conduct field observations regarding the effect of ultra-fine oil on needle scale crawlers in later stages of development and to see what phytotoxic effects could be observed, if any, on Scotch pine. The field observations were made in north central Iowa during the summer of 2000.

## Materials and Methods:

Four Scotch pine trees observed. Each was severely infested with pine needle scale from the result of several generations of unchecked scale activity. The pines were approximately 5 to 6 feet tall with dense foliage. The trees received 2% solution of Sun Spray Ultra-Fine Oil. This is the middle of the labeled rate. Trees were thoroughly sprayed inside and out with a backpack sprayer. Two gallons of spray mixture were mixed for each tree. Trees were sprayed in the morning with temperatures ranging from the low 60's to upper 70's. Weather was a mix of afternoon and early evening thunderstorms and hot and humid days. The treated trees were inspected periodically between 1 June and 26 June for viable scale. This was usually done with a hand lens, but a dissecting microscope was used in the field on 26 June to get a better view. Final observations were made on 25 September.

One Scotch pine was treated on 26 May. New candle growth



Steve White

was about 4 to 5 inches, or about three quarters grown as compared to the previous year's growth. Scale maturity was in the late yellow crawler stage with about 50 per-

cent of the crawlers starting to secrete a white waxy shell. A second tree was treated on 1 June. Candle growth had progressed considerably. Candles appeared to be fully grown with new buds already set. Needles appeared to be just under one half grown as compared to the needles from the previous year. Scale development had progressed as well. Most all of the crawlers were producing a waxy shell and were about 0.5 mm in length.

The third tree was treated on 9 June. Needle growth had progressed a little more since last observed. Needles appeared to be just over one half grown. Scale had grown to about 1mm in length. All of the scale had produced a shell by this date.

The fourth and final tree was treated on 16 June. Needles appeared to be about two thirds grown. Scale were about 1.5 mm in length, or about one half grown as compared to old scale shells still remaining on the tree from past generations.

## Results and Discussion:

No phytotoxicities, or plant damage of any kind was noticed. Oil had a tendency to temporarily darken the foliage slightly, but any change of color was not noticeable by the end of September.

Scale for the first three trees (26 May, 1 June, and 9 June) appeared to be 100% controlled by the 2% ultra-fine oil solution when observed one week from the date treated. Scales were dry and flaky with no visible fluid. A microscope was used on 26 June to confirm the previous observation and scale appeared to be well controlled.

The scale on the fourth tree (16 June) did not appear to be as effectively controlled as the previous trees. Observations were made 10 days after the 16 June treatment. Both living and dead scale could be found on the same needle when observed under a microscope. It was estimated that about 40 - 50% of the scale had survived. Pine needle scale eggs were beginning to be noticed at the time of this observation.

Noticeable traces of viable scale were found on 25 September from the trees that were treated on 26 May, 1 June and 9 June; respectively. These trees had what appeared to be a 100% con-

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trol of the scale when observed one week after treatment. Possible explanations may include trace amounts of overwintered scale that survived the ultra-fine oil treatments, inadequate coverage of the oil on the scale insect, or second-generation scale transfer from neighboring untreated trees.

Very small numbers of adult pine needle scale have been observed to survive the winter in northern Iowa depending on how mild the winter has been. These overwintered adults do not usually produce eggs until the spring and the eggs hatch later than the typical first generation hatch time. It is quite possible that the traces of viable scale that were noticed in September may be from the eggs of overwintered adults that hatched after the oil treatments were applied. This explanation would seem to be a very likely possibility since the oil appeared to have 100% control of the scale crawlers when observed one week after application.

Even though coverage was as thorough as possible using a backpack sprayer, the twisted needles of Scotch pine could make complete spray coverage difficult.

Control of the scale when using a two percent ultra-fine oil solution appeared to be excellent when applied early in scale development; although, there were traces of viable scale noticed on 25 September. Compared to the neighboring untreated trees,

that were literally white with scale, the treated trees looked outstanding. There was no doubt that the ultra-fine oil treatments were very effective, but how effective is not entirely known without more field observations.

It is unclear whether or not stronger ultra-fine oil spray solutions would have gained any additional benefit. It is possible that a stronger spray solution would have killed the older, more developed scale that were observed on 16 June. It is also uncertain whether stronger spray solutions would have had any effect on the adult stage of scale, or cause phytotoxicity problems on Scotch pine.

Ultra-fine oil appears to be a very good tool for controlling pine needle scale at least up to the time that the scale is 1mm in length. This conclusion is based on only one season of field observation and using only a 2% spray solution. Further field observations using different rates of ultra-fine oil, or using a combination of ultra-fine oil solution with an insecticide along with it could reveal even more effective treatments.

Note to the reader: Please feel free to respond with any constructive criticisms, or questions.

References cited: Orton. 1989. Coincide. *The Orton System of Plant Management*. Plantsmen's Publications. Page 45.

## Minnesota To Host 2002 HIS - Central Chapter Annual Meeting October 21st-24th

Planning is underway for the HIS 2002 Annual Meeting to be held in Deerwood, Minnesota October 21-24, 2002.

Excellent accommodations and very low lodging rates (\$41.50 double and \$57.67 single occupancy) will combine with a lake setting for a Minnesota Northwoods experience.

Look for registration materials in the mail



in July. Please note: Reservations will be due earlier than usual, by September 22, 2002 so be sure to submit materials for approval as soon as you get them.

Suggestions for our conference agenda are welcome. Please contact Steven Shimek with your ideas or with any questions about our fall meeting.

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## Hey, Where are the State Reports?

In an effort to get this issue of the HIS Newsletter finished, your new newsletter editor decided to not include copies of the state reports presented at our October 2001 meeting. Without electronic versions of reports from all states as was requested some time ago, it is difficult to put reports along

with various tables and graphics into a compatible format for printing or posting. I encourage you to contact your editor with your comments. Thanks to all who provided copy for this issue. Please forward your comments, ideas and copy for the next issue.



# Do You, Yahoo?

## HIS-Central Yahoo Group

The HIS-Central Yahoo group was set up to facilitate communication among Central Chapter HIS members. The site provides a central location for members to post and exchange email, files, photos, and other items of common interest. One of the most useful aspects of this site is that email addressed to [HIS-Central@yahoogroups.com](mailto:HIS-Central@yahoogroups.com) will be forwarded to all members of the group. This provides a very efficient and rapid means of distributing information to the membership. It was decided at the annual meeting in Wichita, to limit access to the group site to paid members. Your payment status will be checked before you are permitted to join the group. The HIS Central Chapter website <http://www.grapevine.net/~scwhite/HIS> will still be available to anyone and we will continue to post meetings announcements etc. at that location.

Though the site functions as a Listserv, this term is a proprietary name of another program. Yahoo provides the site free of charge. The downside is advertisements will appear on the site and may be attached to email. I have not found the ads to be particularly intrusive and believe that this is a small price to pay for this service.

The following are instructions on how to join. There is now a link to instructions on the HIS web page that will include screen shots that you may find helpful.

First of all, if you already have a Yahoo ID and password, and you have already joined the HIS-Central group but do not have full access to the site you need to activate your membership as follows, otherwise, continue on to "Instructions for Joining".

### How to Activate Your Membership

Go to HIS-Central at <http://>

[groups.yahoo.com/group/HIS-Central](http://groups.yahoo.com/group/HIS-Central) and sign in with your Yahoo ID and password. On the HIS page select "Activate Membership." You will need to verify your email address. Yahoo will email you a code that you enter in a box on the activation page along with your Yahoo password. Once this is done you will be able to access all of the functions on the site.

### Instructions For Joining

There are two parts to this process -  
1) Get a Yahoo ID & Password and  
2) Join the HIS-Central group.

This is easiest done in this order. First, point your browser to <http://groups.yahoo.com>. You will see in the upper left hand corner a new users sign in link to register. Click on it to go to a screen where you will select a user ID, password, and enter some general information. In the box "Alternate Email" enter your regular email address (you do not need a Yahoo email address). At the bottom of the page there will be a graphics box with a word in it. Type the word into the space provided. Yahoo explains that this is to prevent automated registrations. Finally, hit "Submit this form".

The chances are high that your Yahoo ID has already been taken or there may be other problems. A screen will pop up asking you to make the changes and will also suggest ID's you can use. Once everything is correct you will be presented with a screen that says "Registration Completed". You should then click on the box that says "Continue to Yahoo".

You are now at the Yahoo Groups Home page. Enter the HIS group URL (<http://groups.yahoo.com/group/HIS-Central>) into the address bar on the browser and hit enter. NOTE: do not



use the "Join a Group" search box as our group is unlisted to help conserve our privacy. After you hit enter, you should be at the group page and you will see the Central Chapter logo. In the upper right corner of the screen you will see a link "Join this Group". Click on it. This will bring up a page to verify your email address. Click on verify if the listed address is correct. Yahoo will immediately email you a code which you should enter into the "Email Confirmation Code" box along with your Yahoo password on the next screen that will load. Click "verify" and you will be sent to the "Profiles" page where you will enter various user preferences (these can be changed later). When you are done, hit the "Join" button at the bottom of the page. As mentioned earlier, this is a closed group limited to paid members. You will be sent an email once membership to the group is approved. This will occur usually within a day but sometimes within a few minutes if I happen to be on line at the time.

After you get your membership approval email, return to the HIS-Central group site and click on the "Sign In" link on the upper right corner. You will have to sign in every time you access the site. Enter your Yahoo ID and password and you are in! You now have full access to the site and its various features. If you have any problems give me a call or email and I'll do what I can to help.

Stephan C. White  
Plant Protection &  
Weed Control Program  
Kansas Dept. Of Agriculture  
[swhite@kda.state.ks.us](mailto:swhite@kda.state.ks.us)