

VOLUME LXXXI • NO. 14

APRIL 14-21, 2000

BRIEFS

Station Prepares for
Arbor Day Ceremony

Arbor Day will be celebrated this year on Friday, April 28, at 3 p.m. Plans are being made by the Station's Grounds Staff and the Geneva Arboretum Association to celebrate with a tree planting ceremony on the Experiment Station grounds. More information will come out in the next *Station News*.

This ceremony takes planning. The Geneva Arboretum Association will meet at noon on Tuesday, April 18, in G19 Hedrick Hall, to solidify plans for this Arbor Day celebration and planting. All Station employees are invited. Bring a lunch.

Volunteers Needed for Earth Day
Clean-Up at the Station

Earth Day is April 23, and the Station is going to celebrate by cleaning up Station grounds, farms and related ditches on April 28, from noon-3:00 p.m.—right before the Station's Arbor Day Ceremony.

Thirty volunteers are needed. One of them could be you! Please ask for permission from your supervisor and then email Gemma Osborne at gro2@cornell.edu by April 21 if

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The Grass is Never Greener on the Other Side

Turfgrass entomologists may live above ground, but a lot of their grubby foe don't. Over 70 industry representatives, faculty, graduate students and extension specialists from around the country attended the "Turfgrass•Entomology•2000" conference at the New York State Agricultural Experiment Station, April 2-4, to talk about the grubs and other issues facing turf specialists and consumers. The meeting was hosted by Michael G. Villani, professor of entomology at Cornell, and Patricia J. Vittum, associate professor of entomology at the University of Massachusetts, Amherst.

The conference was also an opportunity to celebrate the release of the second edition of *Turfgrass Insects of the United States and Canada*, Tashiro, who is considered the dean of American turfgrass entomologists, was the sole author of the first book. A dinner was held in his honor during the conference.

"It was especially gratifying for us to meet at the Experiment Station because the turfgrass entomology community here has been considered one of the focal points of turf entomology since the 1940's through the research efforts of Dr. Gambrell, Dr. Tashiro, and myself," said Villani. The Station was, and continues to be one of a small handful of institutions working on both fundamental and applied aspects of turf entomology.



Pebble Beach's famed 18th green. The superintendent of this course, Ted Horton, spoke at Dr. Tashiro's dinner at the recent Turfgrass Conference.

"This is a national meeting and one of the most useful ones I go to," said Robert L. Crocker, associate professor at Texas A&M, whose current project is taping the sounds made underground by white grubs as a potential means of monitoring their numbers. "This meeting is a chance for us all to talk about environmental concerns, pesticides and alternatives to pesticides, to exchange new information on the ecology and biology of pest species, discuss new pests of turf, and talk about the effect of government regulations."

Seven topics were addressed during informative panel discussions over three days. In the discussion on biocontrol, moderators Jennifer Grant (NYIPM/Cornell), Albrecht Koppenhofer (Rutgers University), and Parwinder Grewal (Ohio State University) took a look at the practical use of biological control agents for controlling turfgrass pests. The use of biological insecticides, predators, and parasitoids for insect control in turf was also discussed.

In a panel discussion on the transition of IPM from research to implementation, moderator Fred Baxendale (Univ. of Nebraska), Rich Cowles (Conn. Agric. Exp. Sta.), and Gary Couch (NYIPM/Cornell) discussed moving IPM from the classroom to the field to the end user, integrating biocontrol and traditional approaches in a realistic IPM program, and the status of action thresholds and sampling in IPM programs.

In University/Industry/Government/Professional Relationships, moderator Rick

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(BRIEFS, continued from page 1)

you want to sign up for this inaugural event. You will be assigned a crew and area to work. B&P and FRU will provide garbage bags, trucks and drivers to facilitate the event. Wear appropriate clothing and footwear and bring work gloves.

Volunteers will be treated to a pizza and soda lunch from noon-12:30 p.m. in the Station Pavilion at which time they will get their assignments. Station Club will provide door prizes.

This event is co-sponsored by Environmental Health & Safety and the Station Club.

Please Give to United Way

The annual United Way/Red Cross campaign began April 7 and continues through April 21. **Making Good Things Happen** starts with you! Please give generously.

The United Way helps so many people in so many ways. Just last year more than 72,000 requests for services were answered by United Way agencies throughout Ontario County; 71 of those requests came from Station co-workers and family members.

If you didn't receive a pledge card, or need a designation form to select an organization of your choice, or need other information, please contact me at x2210 or e-mail cah3@cornell.edu. Return your pledge card to Charie Hibbard, Jordan Hall Human Resources on or before Friday April 21, 2000.

As a reminder, every individual who watches the United Way Campaign video will receive a **Way2Win** Sweepstakes entry form. To be eligible you must be 21 on or before May 17, 2000, and live in one of the seven counties served by United Way of Greater Rochester (Monroe, Ontario, Wayne, Genesee, Livingston, Orleans, and Wyoming). Prizes include five GMC vehicles, free groceries for a year (up to \$5,000), and trips for two. The last two video presentations are scheduled for Friday, April 14, at 10:00 a.m., in the Jordan Hall Staff Room, and 10:30 a.m. in 310 Barton Lab.

Together, we can make a difference in our community. On behalf of the United Way and those who will benefit from your contribution, thank you!

C. Hibbard

(TURFGRASS, continued from page 1)

Brandenburg (North Carolina State Univ.), Dan Potter (Univ. of Kentucky), and Chris Becker (American Cyanamid) talked about how funding shapes the message, whether roles, goals and responsibilities were clear, and how these relationships affect graduate education now and in the future.

Moderators Chris Williamson (Univ. of Wisconsin), and Wendy Gelerntner (Pace Consulting, San Diego CA) talked about advances in black cutworm management, from traditional and emerging control tactics to action thresholds and laboratory bioassays.

Pheromones and their use as attractants, arrestants and repellants was the focus of the session moderated by Paul Robbins (NYSAES/Cornell), Mike Klein (USDA/ARS.), and Robert Crocker (Texas A&M).

Emerging Environmental Issues, such as the impact of FQPA on turf insect pest management, selective vs. broad spectrum insecticides, homeowner use of products and local laws were addressed in a session moderated by Amy Suggars (TruGreen Chemlawn), David Cox (Novartis), and Gwen Stahnke (Washington State Univ.).

Conference organizers left one of the most interesting topics for last, as David Shetlar (Ohio State Univ.) talked about the emerging insect pests that have been reported in turf over the past year.

Ted Horton, superintendent of the much acclaimed Pebble Beach Golf Course, in Monterey, California, spoke at Tashiro's dinner, and outlined ways in which a golf course/planned community can behave like responsible neighbors. "These include environmental stewardship, community outreach, and a long-range vision to the sustained improvement of the region," he said.

"The meeting went off without a major hitch," said Villani. "We all know that events that appear easy to stage require a great deal of forethought and attention to detail. Nancy Consolie and Paul Robbins are responsible for the logistics of the meeting and they should be proud of their efforts."

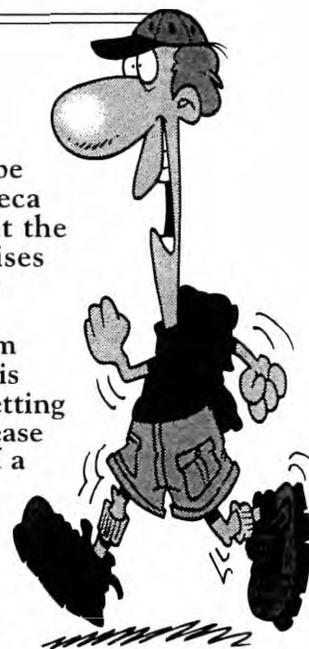
Workshops at the Station take considerable effort and planning. Villani said he was impressed by the way the Station community helped with their efforts. "Rob Way helped with audiovisual questions, Carol Brown, the custodian at Jordan Hall, helped us arrange the conference room setting, and electricians Phil Beman, Gil Devendorf, and Dan Irwin rescued us from coffee pot emergencies."

WALKAMERICA 2000

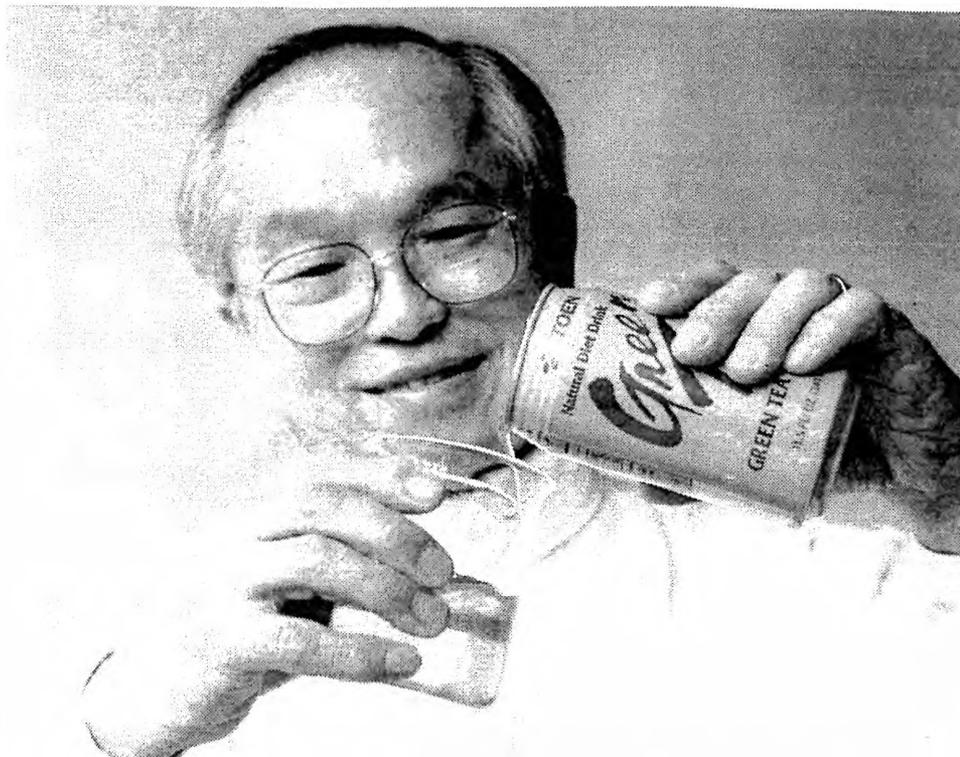
This year's March of Dimes WalkAmerica will be held on Sunday, May 7, at 1:00 p.m. at the Seneca Lake State Park. A "thank you" party is held at the finish line, complete with lunch! This Walk raises money to help save babies born in Upstate New York.

The Geneva Experiment Station has had a team and Station supporters since 1995. Let's make this year our best year ever! If you are interested in getting involved and becoming a Station Team walker, please contact me. I will send you more information and a registration form. If you have registered already (some people who have walked in the past receive registration forms directly), please contact me at kad2, and tell me you want to join the Station Team. Thank you!

Kathy DeRosa



Better Bottled Green Tea



Cy Lee pours green tea from a can. Because of his work, now it tastes better.

For millennia the Chinese, and later the Japanese, have enjoyed the subtle taste of unfermented green tea—fresh-brewed, of course.

Today green tea is just as likely to be found in dispensing machines and in grocers' refrigerated cases in Europe and North America. But bottled or canned green tea instead of fresh-brewed? Clearly, there has been no comparison—until now. Cornell University food scientists have isolated the chemical compounds that are oxidized during commercial processing, and this discovery could pave the way for improved bottled or canned green-tea taste.

"When green tea is bottled or canned, the taste is not as good as fresh green tea. What we were looking to do is improve the flavor quality of it," says Chang (Cy) Y. Lee, Cornell professor of food science at the Experiment Station.

Lee and his students have isolated epigallocatechin (pronounced eppy-gallow-CAT-akin) and epigallocatechin-gallate as the major compounds responsible for changes in color and flavor when commercial processors try to bottle or can green tea. Preserving these compounds also is a health benefit because they are known to have anti-oxidant and anti-cancer activities.

Lee, Li-Fei Wang, Cornell doctoral candidate in food science, and Dong-Man Kim, of the Korea Food Research Institute, Hyonggi-do, South Korea, presented their talk, "Effect of heat processing and storage on flavanols [chemical flavors] in green-tea beverage," on March 29 at the American Chemical Society national meeting in the Moscone Convention Center, San Francisco.

"First we had to figure out what's going on chemically," said Lee. "If the chemicals decreased during processing, then we have to modify the process to keep these chemicals stable after the processing."

How can the green tea compounds be kept stable? "One possibility," Lee said, "is to add ascorbic acid (vitamin C)."

For nearly 5,000 years, the Chinese have consumed tea either for medicinal purposes or as a daily drink. In the early 17th century, tea was introduced into Europe, and at the end of the century, the East India Company brought tea to London for the first time.

There are two basic tea plants, *C. sinensis sinensis*, with small leaves, and *C. sinensis assamica*, with large leaves. From those two plants, three basic kinds of tea are derived: the fully processed or fully fermented black teas familiar to the Western palate; the semifermented oolong teas, familiar to Asia; and unfermented green tea.

Green tea starts with freshly harvested leaves which are processed by steaming at 95 to 100 degrees Celsius for about 30 seconds to deactivate enzymes and prevent the tea from fermenting. The leaves are then dehydrated for up to 40 minutes at 70 to 80 degrees Celsius, then rolled for 10 to 15 minutes. Two more dehydration steps complete the process.

For commercial canned or bottled green tea, hot water is added to the powdered form and the infusion is pasteurized by heating to 121 degrees Celsius for one minute. This allows it to remain on a grocery shelf without refrigeration. In addition to adding vitamin C, Lee and his colleagues are researching other ways to improve the quality of the bottled or canned green tea.

B. Friedlander

I've learned...  that the best classroom in the world is at the feet of an elderly person.

Andy Rooney

CALENDAR OF EVENTS

SEMINARS

HORT SCIENCE

Date: Monday, April 17, 2000
Time: 11:00 a.m.
Place: Jordan Hall Staff Room
Title: "Tiger's Den: Ecology of the Modern Putting Green"
Speaker: Dr. Frank Rossi, Department of Floriculture & Ornamental Horticulture, Cornell

PLANT PATH

Date: Tuesday, April 18, 2000
Time: 3:30 p.m.
Place: A133, Barton Lab
Title: "Ontogenic Resistance Development in Grapevine Against Powdery Mildew"
Speaker: Andrea Ficke, Department of Plant Pathology, Geneva

LTC

Date: Thursday, April 20, 2000
Time: 10 -11:30 a.m.
Title: Microsoft Word 98
Place: Jordan Hall
Instructor: Pat Krauss

Date: Friday, April 21, 2000
Time: 10 a.m.- Noon
Title: End Note
Place: Jordan Hall
Instructor: Jay Datema, Mann Library Public Services Librarian, Coordinator of Public Access Computing Instructor

FITNESS

AEROBICS

Date: Monday, Wednesday and Friday
Time: 12:10 to 1 p.m.
Place: Sawdust Cafe

TAEKARDIO

Date: April 17, 2000
Time: Noon
Place: Jordan Hall Auditorium

CLASSIFIED

WANTED: 1 bedroom or studio apartment, located in Geneva, furnished or unfurnished for a 6-month lease, starting in May. An apartment that allows cats is preferable. Please contact Frank at x2406 or fpw1@cornell.edu.

FOR SALE: Sturdi-Built Company 9 x 12 redwood and glass greenhouse with some accessories. Asking \$250. Call Bob Clise at x372 or 789-6599 after 5p.m.

WANTED: 2 BR cottage on Seneca Lake for the month of July for my 70-year-old Dad who wants to golf, fish and escape the Florida summer heat. Sunrise or sunset; East or West side. No more than 20 miles from Geneva, please. Any leads will be rewarded! llm3@cornell.edu, or x2417.

FOR SALE: 2 bicycles- # 1 Huff, 3 -speed(Shimano), 15 years old, good condition, \$10. # 2 Takara, 10-speed, 10 years old, excellent condition. \$50. Contact Mary Beth at x2618 or mes33.

FOR SALE: Scuba equipment: oceanic ocean sport BC, size M, near mint, black with blue trim, comes with blue carry bag. \$300 or best offer. Contact Mike Fordon at x2214 or mpf8.

FOR SALE: 1989 Ford Escort LX, 4 door hatchback, 5 speed, one owner, 168k miles, some rust. Maintenance records available, runs well. \$1100. Contact Mary Beth at: mes33@cornell.edu

FOR SALE: Refrigerator and electric range and electric dryer. All in excellent condition. Call Nancy at x2313 or 789-5485.

FOR SALE: Two new Goodyear tires on new rims, size P185/75R14 with mud and snow tread for \$95. Call Bob Kime at x2258 or rwk1@cornell.edu.

WANTED TO RENT: An apartment or a room in a house (with access to kitchen facilities) for a Postdoc arriving in Geneva in April. Needed for April and May only. Any leads would be very much appreciated. Contact Greg English-Loeb at x2345 or e-mail gme1.

WANTED TO RENT: Post-Doc and PhD Student need a house to rent near the Station. Dawn and Torey will be moving here in July and anticipate living in Geneva or the surrounding area for 2 or 3 years. They have 2 large dogs and are looking for a nice, quiet home to rent. If you have any ideas please call 607-539-3293.

NOTICE

Ontario County is holding a collection day this Saturday, April 15, for household hazardous waste (pesticides, cleaning products, alkaline batteries).

You must register by calling the Solid Waste Office at 396-4482 no later than tomorrow Wednesday April 12. Collection location is the recycling building at the landfill in Flint, Rt 5&20.

FIELD RESEARCH UNIT PESTICIDE REMINDERS

The spray season has begun. Please remember to check the electronic posting board (EPOST), WPS Central Posting, or the on-site posting before entering any research blocks. The EPOST instructions "Read Me First" are in the "sprays" folder on the CC fileserver.

Please remember applicators cannot always see people in or around the blocks being sprayed. If you are exposed to drift, vacate the area immediately and check the proper central posting location for specific information about the application or contact Mart Van Kirk at 781-5307 or mwv1@cornell.edu. Thank you for your cooperation.

WPS TRAINING

A Worker Protection Standard (WPS) training session will be held this Friday, April 14, 2000 in the Jordan Hall Lounge from 10:30 a.m. to 11:45 a.m. WPS training is required by an EPA regulation. The training is designed to protect agricultural workers and pesticide handlers from the risks of exposure to pesticide residues.

All new employees who will work in farm fields and/or greenhouses and all new B&P non-office staff should attend as soon as possible after their first day of work. New employees should bring with them to the training session a signed copy of the "BASIC PESTICIDE TRAINING REQUIREMENTS FOR WORKERS" from the back of the current electronic version of the Station Safety Manual. The Manual is found in the safety folder on the CC fileserver.

Any employees trained in 1995 or earlier who have not been retrained and are not certified applicators are required to be trained again in 2000 and should attend a training session before the expiration date on their WPS Handler Verification Card.

No pre-registration is necessary.