



STATION NEWS

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New York State Agricultural Experiment Station, Geneva

FIVE PROFESSORS RECEIVE PROMOTIONS

Five scientists at the Geneva Station received promotions through action by the Board of Trustees of Cornell University.

Promoted from associate professor to full professor were Dr. Wendell L. Roelofs and Dr. A. C. Davis, both members of the Entomology Department. Promoted from assistant professor to associate professor were Dr. Herbert S. Aldwinckle, Department of Plant Pathology, and Dr. Gary E. Harman, Department of Seed and Vegetable Sciences. Dr. Yong D. Hang was promoted from research associate to assistant professor in the Department of Food Science and Technology.

Dr. Wendell Roelofs is known throughout the world for his research on insect sex attractants, a relatively new field in which he was among the pioneering scientists. His studies started in 1965 when he first joined the Geneva Station as an assistant professor. He has not only isolated many of the sex attractants of numerous species of moth but has also been able to identify their chemical structure and has

reproduced the compounds in the laboratory. Among the more important attractants Dr. Roelofs and his associates have identified are those of the redbanded leafroller, the oriental fruit moth, the obliquebanded leafroller, the grape berry moth, the codling moth, the grape vine moth, and many more. He and his associates have found attractants for more than 80 different species of lepidopterous by screening chemicals in the field for attractiveness to males.

One of his unique contributions to this particular field of agricultural research has been the development of a new method of identification which makes use of the antennae of the male to help identify the attractant emitted by the female moth. Utilizing electrical sensors attached to the antennae, this method enables very rapid determination of attractant identification compared to previous methods that required considerable time and the study and use of thousands of female moths in a particular species.

During his entire time at the Station, Dr. Roelofs has worked closely with entomologists in the department to test the practicality of his findings. For example, from 1969 to 1972 the redbanded leafroller was successfully sup-

pressed in two commercial apple orchards in New York using one trap per tree that had the attractant in it. Current research shows promise for development of a commercially and ecologically acceptable control using attractants to disrupt the pest's mating behavior.

Currently, sex attractants are being used successfully to monitor populations of certain insects. This enables entomologists to determine more precisely whether or how frequently sprays need to be applied to prevent an insect from doing damage to a crop.

Dr. Roelofs received his Ph.D. degree in organic chemistry from Indiana University in 1964. He joined the Station faculty in 1965 as an assistant professor and was promoted to associate professor in 1969. He went on a 6-month sabbatical leave in 1973 to conduct research in The Netherlands and was a member of the United States Insect Control Delegation to the People's Republic of China during August last year.

He has received the Entomological Society of America's J. Everett Bussart Memorial Award in 1973 and a Cornell University College of Agriculture Traveling Fellowship in 1974. Dr. Roelofs is a member of the American Chemical Society, the American Association for the Advancement of Science, the Entomological Society of America, and Sigma Xi.

Dr. Alexander C. Davis was promoted from associate professor to professor of entomology. He has been a member of the Station's Entomology Department since October 1947 when he started as a research assistant prior to receiving his Ph.D. degree from Cornell University in 1950. Dr. Davis was promoted to assistant professor in 1950 and to associate professor in 1954.

A specialist in the field of insects attacking New York vegetable crops, Dr. Davis and two other professors are responsible for developing both short and long term crop protection capabilities for vegetables in New York and to increase basic scientific knowledge concerning the biology of vegetable insect pests. Dr. Davis' position also carries the responsibility for coordinating the total New York State vegetable insect research program.

Known as a pragmatic entomologist, Dr. Davis has long been recognized as a leading authority in New York and the Northeast on vegetable insect pests and their control. He cooperates closely with extension specialists to see that latest information is made available to growers for current use. Also, he is in constant touch with growers throughout the State and scientists at other places throughout the country to see what vegetable insect problems might be developing.

In 1972, Dr. Davis spent a 6-month sabbatic leave with the Cooperative State Research Service of the U. S. Department of Agriculture in Washington, D. C. During this period, he conducted reviews of the programs of departments of entomology in several universities and advised the USDA on pesticide problems.

In addition to his research responsibilities, Dr. Davis is also a consultant to the Federal government on matters pertaining to the field of insect study and pesticide regulations. This relationship has enabled him to keep abreast of problem areas and to exert an impact on the development of plans for future research on entomological problems of the agricultural industry.

Recently, the Experiment Station's Pesticide Laboratory at Geneva was given the responsibility to provide the northeastern region with analysis of pesticide residues for minor crops or minor uses. This includes most of the crops grown in the northeastern United States. Dr. Davis is cooperating closely in coordinating the activities of scientists in the Station's Department of Food Science and Technology Pesticide Laboratory with scientists in the region to provide information needed for registration of pesticides for use on minor crops.

Dr. Herbert S. Aldwinckle received a promotion from assistant professor to associate professor of plant pathology. He is primarily responsible for conducting

research relating to the breeding of resistant varieties of fruit crops and for determining the nature of disease resistance. He is also studying the spread and control of Valsa canker of peach as a minor part of his research responsibilities.

Dr. Aldwinckle received his Ph.D. degree from London University in 1966. Before coming to the Station as an assistant professor of plant pathology, he spent a little more than 2 years at the University of California at both Davis, in 1968-1969, and Berkeley, in 1969-1970.

Dr. Aldwinckle works quite closely with Station plant breeders in the development of disease-resistant varieties of fruit. He has developed or improved techniques for screening fruit breeding lines for several apple and grape diseases. He has identified sources of resistance to such apple diseases as cedar apple rust, crown rot, and fire blight, and has also studied the inheritance of resistance with these three diseases. All promising apple varieties from the Station's breeding program are now evaluated for resistance to fire blight, scab, rust, and mildew.

Although Dr. Aldwinckle feels there is still much more work to be done in the field of identifying resistance to various diseases, he is particularly interested in expanding his research program to study the nature of resistance. He feels this information will not only provide a firmer basis for leaning on a particular type of resistance but will also help in screening for resistance to diseases.

Even though his project on Valsa canker of peach receives less of his research time because of the importance of apples and grapes as an industry in New York, he has recommended several improvements in cultural practices to help control this disease. Currently, he is involved in testing various chemicals for control of Valsa canker and is constantly looking for canker-resistant varieties of peach originating from the Station's breeding program.

Dr. Gary Harman was promoted from assistant professor to associate professor of seed microbiology. Dr. Harman is responsible for investigating the host-parasite relationship between seeds and the microorganisms that infect seeds and to determine how these microorganisms affect seed vigor. He is also responsible for detecting, identifying, and, where possible, eradicating serious seedborne microorganisms.

He received his Ph.D. degree from Oregon State University in 1969 and came to the Experiment Station in 1970 after serving as a post-doctoral research fellow at North Carolina State University.

During his brief time at the Station, Dr. Harman has discovered that a common storage fungus kills the embryos of seeds by producing a toxin and that the tissue is not invaded by the fungus until it is dead. This research suggests practical ways of protecting seed and improving plant production.

In other research, some plants are susceptible to seed rots, damping off, and root rots. In New York, severe damage occurs from these fungi caused diseases with beans, peas, and, to a lesser extent, soybeans. Resistance to the pathogens involved does exist in breeding lines, but it is a complex matter and has not become commercially usable. Working with a pea geneticist, Dr. Harman plans to define biochemical, physiological, or structural differences in resistant plants that may explain the observed resistance. This could well lead to methods for incorporating resistance into horticulturally acceptable lines.

In addition, Dr. Harman is assisting in the identification and evaluation of seed-borne pathogens on inspection samples, is studying how improvements can be made in detecting and eliminating seedborne pathogens, and also working on the ecology of seeds, microorganisms, and other pests.

He is a member of the American Phytopathological Society, Sigma Xi, and the American Association for the Advancement of Science.

Promoted from research associate to assistant professor of food science was Dr. Yong D. Hang, Depart-

ment of Food Science and Technology. Dr. Hang received his B.S. degree from the National Taiwan University, Taiwan; his M.S. degree from the University of Alberta, Canada; and his Ph.D. degree from McGill University, Canada. He came to the Geneva Station as a research associate in 1968 having a strong background in food science and microbiology.

Dr. Hang's primary interest has been in finding ways that food processing wastes can be handled more efficiently. His approach has been to search for new techniques to minimize water consumption which will reduce waste production and the development of methods and equipment to collect, treat, and convert food wastes to products of economic value.

For example, Dr. Hang has been studying the single cell proteins such as algae, bacteria, yeasts, and fungi. His attention has been drawn to using yeasts to help solve waste disposal problems in food processing plants and at the same time to bring about development of single cell protein. Much of his work has been on the production of food yeast in sauerkraut waste.

In this process, the yeast utilizes the pollution materials, such as nitrogen, phosphate, and sugars, and reduces the biochemical oxygen demand (BOD) by nearly 90 per cent. The waste material is changed from acid to a slightly alkaline condition, another plus because acid waste effluents generally require neutralization before they can be treated in secondary waste treatment systems.

Yeast obtained from this process is about 45 per cent protein and is rich in B vitamins. It has value as a food. In addition, the yeast is an excellent source of invertase, an enzyme widely used in food industries.

This process is now being used on a commercial basis in several kraut packing plants in the Geneva area.

Dr. Hang is a member of the Institute of Food Technologists, the American Society for Microbiology, and Sigma Xi.

SERVICE PINS AWARDED

Pins for 5, 10, 15, and 20 years of service were presented to Station employees at a ceremony Thursday, September 30, in the conference room of the Food Research Laboratory. Katie Preczewski was MC, Director Barton spoke, and each department head presented the pins to his employees. Department of Seed and Vegetable Sciences—Earle Waters, Gerry Gibbs, Harold Bremer, 20 years; George MacDonald, 15 years; Cathy Roe and Fran Van Kirk, 5 years. Department of Food Science and Technology—Brigitta Stoyla, Bob Ennis, Laverne Weirs, 15 years; Bob Kime, John Kenny, and Don Queale, 5 years. Computer Services—Ed Broderick, 15 years. Buildings & Properties—Howard Rozell, 10 years; John Coffin, 5 years; Custodial Services—Dewayne Norsen, 15 years; Mike Fleming and Oliver Rouse, 5 years. Administration—Mary Lou Dumbleton, 20 years. Publications—Paris Trail, 20 years. Department of Plant Pathology—Bud Smith and Ron Nevill, 15 years; Linda Jensen and Dave Hummer, 10 years; Herb Gustafson, 5 years. Department of Entomology—Mike Dunham and Frank Consolie, 20 years; John Minns, 15 years; Carrie Hessney and Sam DeMaria, 10 years; Paul Robbins, 5 years. Pomology and Viticulture Department—Jack Reich, 5 years; Fredonia Lab: Harriett Hubbard and Al Straight, 15 years.

NEW RASPBERRY NAMED AT FRUIT TESTING MEETING

The 58th Annual Meeting of the New York State Fruit Testing Cooperative Association was held on September 16. The program this year was dedicated to the late George L. Slate. A memorial statement was given by Don Ourecky. Dr. Richard Layne, Harrow, Ontario, Canada, was guest speaker and discussed peach breeding and production in Canada.

A highlight of the meeting was the introduction and naming of a new purple raspberry variety, Brandywine. This new variety, named by Don Ourecky, was tested as N. Y. 905. It has performed well in test plantings in many areas, is especially fine for culinary purposes, the fruit is large (average 5-6 grams per fruit), round-conic in shape, reddish purple in color with moderate pubescence, firm, tart, and of high quality. The tartness is desirable for making jam and jelly, and it makes a very fine flavored jam or jelly. It is one of the latest varieties to ripen. The plants are very vigorous and productive. The canes are large, very erect and strong. The plants do not sucker like red raspberries, but are best propagated by tip-layering.

Brandywine resulted from a cross between NY 631 (a dark purple raspberry) and Hilton (a large fruit red raspberry). The cross was made in 1963, producing 172 seedlings from which seven selections were made in 1966.

Mr. Ed Makielski, a grower of Brandywine from Ypsilanti, Michigan, was on hand to tell the audience about his planting of Brandywine, which is now nearly 11 acres. He is one of the most enthusiastic supporters of this new variety.

Approximately 275 people attended this year's meeting.

RETIREMENTS

Joanne Whitcombe retired August 31 from her position in Food Science and Technology as Experimentalist II. She was in charge of the Food Analysis Laboratory. Joanne had worked at the Station in Food Science since 1944. She is moving to North Carolina and is beginning a new career.

Greta Leader retired August 31 as Laboratory Assistant in the Department of Plant Pathology. She started work at the Station in April 1962. Greta has many hobbies which she is now able to enjoy on a full-time basis.

Also retiring August 31 was Jeanne Cleere, Research Support Specialist in Entomology. Jeanne began her career at the Station as a laboratory technician in Plant Pathology in 1942. She also had temporary jobs in Plant Pathology, Chemistry, Food Science, and Pomology before joining the Department of Entomology to work with Sig Lienk in 1959. Most recently, she worked with Bill Bowers in his laboratory. On September 17, many of Jeanne's friends gathered at the Holiday Inn to honor her. "Surprise" former associates who attended the gala event were Heinrich Arn, Theresa Feng, and Mike Montgomery.

Retiring September 30 was Art Christensen, Carpenter in Buildings and Properties. He started work at the Station in November 1967. Art says he has no special plans other than to enjoy life with "the wife."

NEW HIRES

Sue Croser was appointed Administrative Secretary in Food Science and Technology July 6, 1976. She is a graduate of Central City Business Institute in Syracuse and lives in Auburn.

Roger Cullen was appointed a Research Technician in Food Science and Technology. He is working with Keith Steinkraus. Roger has his B.S. degree in biology from Northeastern University and his M.S. degree in microbiology from Cornell University. He lives in Ithaca with his wife, Donna, and son, Lucas.

Appointed September 9, 1976 as an Experimentalist in Seed and Vegetable Sciences to work with Ben Clark in seed analysis was Mary Lou White. Mary Lou has her B.S. degree in Botany from SUNY College of Environmental Science and Forestry at Syracuse. She lives in Waterloo.

Sandy Pooler is a new Technical Aide in Seed and Vegetable Sciences. Her appointment became effective September 13, 1976. Sandy is working with extension specialist Bob Becker and also assists other department professors in laboratory and greenhouse work. She has her A.A.S. degree in Agronomy from Morrisville Ag. and Tech. College. She lives in Geneva.

Gerry Smith was appointed General Mechanic

September 23, 1976 in Buildings and Properties. Before coming to the Station, he worked for Morton Salt Company. Gerry lives in Penn Yan with his wife, Helen, and two sons, Tim and Ken.

Janice M. Claire was appointed Stenographer at the Hudson Valley Laboratory September 23, 1976. She lives in Rhinebeck, New York with her husband, Dennis.

Yolanta Brietenwald has temporarily joined the Department of Seed and Vegetable Sciences. Yolanta is from Poland and is working with Mike Dickson and Dick Robinson. She then will work for Anwar Khan for 3 months.

TRANSFERS

Rita Reissig was appointed Administrative Manager in Food Science and Technology July 1, 1976. Rita replaces Rocco Polimeni, who is now in Jordan Hall. Rita has been the Administrative Secretary in Food Science since July 1973. She has her B.S. degree in horticulture from Kansas State University. She is the wife of Harvey Reissig in Entomology.

Tom DeYulio was appointed Head Greenhouse Worker July 1, 1976. He has been a Greenhouse Worker since September 1968. Tom attended Alfred State College, majoring in Horticulture. He lives in Newark with his wife, Susan.

Kitty (Herrick) Fish was appointed a Technical Aide in Entomology August 26, 1976. She is now working with Bill Bowers and had previously worked for Wendell Roelofs. Kitty was married September 11, 1976.

KENDER NAMED FELLOW IN ASHS

We extend to Walt Kender our most sincere congratulations on being named a Fellow of the American Society for Horticultural Science. Walt was one of only 11 members of the 3,000 member Society named a Fellow this year.

Walt, as you know, is Chairman of both the Pomology Department at Ithaca and the Pomology and Viticulture Department here at Geneva. He has been a member of ASHS since 1957. The award was given Walt in recognition of "outstanding leadership and administrative abilities; for notable research accomplishments in the propagation and domestication of the low bush blueberry native to Maine; in defining growth regulator effects on the growth and flowering of apples, grapes, and strawberries; in developing means of protecting grapes against injurious air pollutants; and for service to the Society as a Director, member of national committees, and serving as program chairman for the Northeast Region."

HUCKER NAMED FELLOW OF IFT

George Hucker, a former bacteriologist in the Department of Food Science and Technology, was recently named a Fellow of the Institute of Food Technologists. George retired from the Station in 1963 after 44 years of service. During his career, he received numerous honors for his research efforts and was a member of many honorary societies.

FORMER GRADUATE STUDENT QUOTED IN ESQUIRE

Many of you will remember Dr. Zada Vickers when she was working here at the Station with Malcolm Bourne on her doctorate. Zada became deeply involved in the crispness of foods. She is currently an assistant professor of food science at the University of Minnesota and is recognized as a leading authority on this interesting subject. Esquire quotes her extensively in an article written by Ron Rosenbaum for the July 1976 issue of the magazine on the sound of foods. The article is entitled "CRUNCH" and is worth reading.

PEDERSON WRITES FOR THE CONSERVATIONIST

Another retired professor of bacteriology, Carl S. Pederson, is also in the news these days. Carl wrote an excellent article on pickles for the July-August 1976 issue of The Conservationist. It makes fine reading and is complete with some delicious sounding recipes.

VISITING FELLOW

Dr. Boris Kovalev, an insect pheromone chemist from the All Union Scientific Research Institute of Biological Methods for Plant Protection, USSR, arrived in Geneva on September 29. He will be working with Wendy Roelofs and his associates for the next several weeks before going on to Beltsville. He is here under the USA/USSR Exchange Program. Dr. Kovalev is staying with Mrs. Glasgow.

CERES CIRCLE OCTOBER MEETING

The October meeting of Ceres Circle will provide its members with a unique program. Instead of the usual evening meeting, a morning tour of the Experiment Station will begin at 10:30 on Monday, October 18, in front of Jordan Hall. At 12 noon, a luncheon will be served in the Food Science conference room. We hope that a large number of members who are employed at the Station will join the party for lunch. Sandwiches will be provided by the Geneva committee, co-chaired by Carole Kender and Suzie Hunter. Dessert will be prepared by the Ithaca Agricultural Circle's committee, chaired by Jan Smith. The Ithaca Agricultural Circle has been invited to join in the tour and for lunch.

CERES CIRCLE SIXTH ANNUAL WINE AND CHEESE TASTING PARTY

On Saturday, September 25, 72 "tasters" arrived at the home of Dr. and Mrs. Donald Barton to make the Ceres Circle Sixth Annual Wine and Cheese Tasting Party a tremendous success.

The co-chairmen had arranged the wines in five groups: experimental wines, white wines, light-bodied red wines, heavy-bodied red wines, and dessert wines. Guests were provided with a program listing all the wines in each group, and pencils were available for writing down comments (pro and con) about the wines sampled. The tables were attractively decorated with apples and grapes, and various cheeses and crackers were provided for nibbling.

Richard Nelson of the Department of Food Science and Technology explained the arrangement of the wines and provided some guidelines for tasting. He recommended starting with the white wines and moving through the red wines to the dessert wines. He also pointed out various characteristics to look for in the particular wines available. And finally, he predicted that every wine at the party would be the favorite of at least one guest.

The credit for the huge success of this year's party goes to the co-chairmen—Anne and Terry Acree and Jennifer and Richard Nelson.

LIBRARY CORNER

SCIENTIFIC AMERICAN

The September 1976 issue of SCIENTIFIC AMERICAN is devoted to food and agriculture and gives a very comprehensive story of the problems and resources in the field of agriculture.

The 1976 issues of SCIENTIFIC AMERICAN have been given to us by Ross Hackler of Food Science, but his subscription runs out with the October issue. Although the Library will be continuing SCIENTIFIC AMERICAN with the 1977 issues, we do need the November and December issues to complete the 1976 volume. If anyone who

currently receives this journal would like to donate these two issues to the Library, we would greatly appreciate it.

Missing Books

The following books have been identified as missing in the latest campus survey. If you discover one of them in your office, please notify the Library. And if you haven't returned the list of books signed out to you, please do so as soon as possible. Thank you.

581.19 Robinson, T. The Organic constituents of higher
R56 plants: their chemistry and interrelationships.
1963.

595.704 Novak, V. J. A. Insect hormones. 2d ed., 1966.
N85

614.772 McKee and Wolf. Water quality criteria. 2d ed.,
M19 1963.

641.1 Harris, R.S. and H. vonLoesecke. Nutritional
H24 evaluation of food processing. 1960.

612.015 Methods in enzymology, v. 1, 1955.
C71

Health Sciences Computer Base

Computer-produced bibliographies in biomedicine, the biological sciences, education and psychology are available at the New York State Library. This specialized literature service assists medical and health-related personnel in keeping up to date with advances in their field of interest. The State is providing free searches to medical and health-related professions (e.g., nutritionists, pharmacists, toxicologists, etc.) when the request is made through a library. Our Library has made one search for a faculty member which proved to pull a number of relevant references. Turn-around time was fairly good also; the print-out was received 15 days from the date of our initial request.

Data base services available include MEDLARS (MEDical Literature Analysis and Retrieval System), CANCERLINE (CANCER on-LINE), CANCERPROJ (ongoing cancer research projects), EPILEPSY, AVLINE (AudioVisuals on-LINE), NYTIB (New York Times Information Bank), TOXLINE (TOXicology Information on-LINE), CHEMLINE (CHEMical Dictionary on-LINE), BIOSIS Previews (Biological Abstracts and BioResearch Index from 1970), PSYCH (PSYCHological Abstracts), ERIC (education), and a Current Awareness Service.

Searches will also be done for non-health-related professionals for a slight fee. The fee schedule is available in the Library.

The Biomedical Terminal at Mann Library has just begun operation again on a very limited basis (6 hours/week for searches only). It is expected that by the first of the year there will again be a full time searcher and that the program will be expanded. Further information about use of the terminal can be obtained by calling the Mann Library office, 8-6-2285.

MEETINGS

Sandy Davis, Entomology, was in Washington, D. C. July 21 as a representative of CSRS in defense of Toxaphene. He also represented CSRS in the Toxaphene-Strobane hearing on July 27 and 28 in Washington, D. C. and Beltsville, Maryland.

Fred Taschenberg and Wendell Roelofs, Entomology, were in Akron, Ohio September 13-15 attending the 1976 International Control-Release Pesticide Symposium.

Haruo Tashiro, Entomology, was in Washington, D. C. September 27 and 28 where he testified in an EPA chlordane cancellation hearing.

Harvey Reissig, George Schaefer, Bill Bowers, Chikao Nishino, Tomihisa Ohta, and Ed Glass, Entomology, attended the XV International Congress of Entomology in Washington, D. C. August 20-27. The last time the Con-

gress met in the United States was in Ithaca in 1928. Approximately 2,500 entomologists from all parts of the world were in attendance. A number of these visiting entomologists took the opportunity of visiting at Ithaca and Geneva following the Congress. Among these were entomologists from England, Switzerland, Holland, Japan, Nigeria, Norway, Malaysia, and Poland.

Chuck Murdoch, Entomology, met with the Long Island Golf Course Superintendents Association at Shelter Island, New York on September 20. He talked to the group on "Turf Management in Hawaii" and also on the nematode survey he is conducting here in New York. About 75-100 people were in attendance at the dinner meeting.

Ed Glass attended a meeting of Directorate 9 of Pesticides in the Environment of the Man and the Biosphere Program in Lincoln, Nebraska on July 8.

A Pest Management Training Workshop for Entomologists was sponsored by the University of California/AID Pest Management Project in connection with the XV International Congress of Entomology held in Washington, D. C. August 19-27, 1976. The workshop was organized by Ed Glass and Larry Apple of North Carolina. Hal Willson, formerly of the Department of Entomology at Geneva and now Survey Entomologist at Ithaca, was the workshop coordinator. A group of 25 entomologists from 16 countries participated in the workshop, which started at Ithaca on August 19. The group was in Geneva from July 28-30. This part of the program included lectures and field tours covering the work on crop-protection research on fruits and vegetables. Most members of the Department of Entomology participated in this program either here or at Ithaca. On July 29, the entomologists hosted the group for dinner at the Geneva Athletic Club. From Geneva, the group went to western New York, visiting with Fred Taschenberg at Fredonia, and then out through Pennsylvania to North Carolina for additional lectures and field tours. After a visit to the eastern shore of Virginia and Maryland, the group completed their training by attending the International Congress in Washington.

The first annual meeting of the newly organized Eastern Section of the American Society of Entomologists met in Erie, PA. on Penn State University's Behrend College campus. About 150 people attended the 2-day session that featured presentation of the first charter to a regional section. Of the 22 papers presented, 11 were presented by German scientists. Featured speakers included Bob Pool from Pomology and Viticulture; Jerry Uyemoto from Plant Pathology; and Richard Nelson, Jim Moyer, Jerry Van Buren, Geza Hrazdina, Len Mattick, Mark Banner, Don Splittstoesser, and Dick Kluba from Food Science and Technology. Willard Robinson, who was program chairman for the meeting, is chairman-elect of the Society, and Bob Pool is secretary.

Andy Rao, Food Science, attended the First International Congress on Engineering and Food, Boston, August 9-13, and presented a paper. A number of engineers and technologists who attended the Congress visited the Department of Food Science and Technology. They included Prof. Alastair Hick, Australia; Dr. W. E. L. Spiess, W. Germany; Dr. J. Olkku, Finland; and Dr. M. Cheryan of the University of Illinois. Jim Moyer, Malcolm Bourne, and Andy Rao discussed various research activities with the visitors.

Keith Steinkraus, Food Science, went to Asia in August as part of an American Institute of Chemical Engineers /U.S.AID/ League for International Food Education site visit team studying food and agricultural wastes in Singapore, Malaysia, Thailand, Indonesia, and the Philippines. Other members of the team were Dr. Marvin Fleischman, Department of Chemical Engineering, University of Louisville, and Reginald Meade, Industrial Scientist, formerly with Pillsbury Mills, Inc.

R. S. Shallenberger, Food Science, visited Kyoto, Japan the week of August 15 as the U. S. representative to the Steering Committee for International Carbohydrate Congresses. While he was there, he attended sessions of the VIII Congress.

Ed Glass attended a Governing Board meeting of the Entomological Society of America in College Park, Maryland on August 16 and 17.

On August 18 and 19, Ed Glass chaired a workshop at the National Academy of Sciences on the subject of "The Impact of Pesticide Regulations and Decisions on Integrated Pest Management." Ron Kuhr and Sandy Davis presented papers at this workshop.

Ed Glass was in the Philippines from September 1-24, where he presented a paper at a WHO workshop on Pesticide Safety and, along with Otto Schultz, was a consultant to AID regarding the support of a newly established National Crop Protection Center at Los Banos and seven regional Crop Protection Centers scattered throughout the country. These have been established in response to the critical need for improved crop-protection responsibilities for rice and other Philippine crops.

Rick Weires, Entomology, attended a workshop on Ultra Low-Volume Application of Pesticides at Beltsville on August 17 and 18.

The Geneva Plant Pathology Department co-hosted, with the Ithaca department, the Apple and Pear Disease Workers' Third Fire Blight Workshop September 19-22. Discussion sessions were held at the Ramada Inn at Ithaca. On September 21, over 40 participants visited Geneva to observe fire blight experiments and research facilities. In the evening, a steak barbecue was held in the Recreation Pavilion. The workshop was attended by 50 scientists, making it the largest gathering of fire blight research and extension people ever held. There were representatives from 16 states and Canada, England, Germany, and The Netherlands. Herb Aldwinckle and Joe Preczewski were in charge of Geneva arrangements. Also participating from Geneva were Jim Cummins, John Gilpatrick, Jim Hunter, Bob Lamb, and Bob Seem.

Alan Lakso, Pomology and Viticulture, attended the International Working Conference on High Density Fruit Plantings at the East Malling Research Station, Maidstone, England September 6-9. Following the meeting, he planned visits to research stations in West Germany, The Netherlands, Poland, and Switzerland.

Robert Pool held a meeting on production and marketing of table grapes on September 2 in the Food Research Laboratory conference room. Speakers at the meeting were A. N. Kasimatis, Extension Viticulturist from the University of California on leave at Geneva; Keith Kimball and Bob Pool, Pomology and Viticulture; John Tomkins, Cornell University; Jim Doolittle, New York State Department of Agriculture and Markets; Wilbur Whatley, Chief Inspector for the USDA; and George Borzilleri, Erie Conpro Company. About 50 interested growers attended the meeting.

Nelson Shaulis and A. N. Kasimatis, Pomology and Viticulture, attended a Monsanto Vineyard Meeting at the Vineyard Laboratory, Fredonia, on September 27-29. Various growers, fieldmen, and researchers met to view glyphosate trials in New York vineyards and discuss the experiments conducted at the Vineyard Lab with glyphosate over the last several years. Nelson presented a paper discussing results and conclusions of the experiments using glyphosate at the Vineyard Lab.

Mike Dickson and Morrie Vittum, Seed and Vegetable Sciences, attended the NE Regional Vegetable Research Steering Committee meeting at Harrisburg, PA. on September 22. Director Barton also attended.

Jim Cummins, Phil Forsline, and Otis Curtis, Pomology and Viticulture; Henry Bennett, New York State Fruit Testing Cooperative Association; and Lou Edgerton, Ithaca, participated in the Wayne County fruit growers' field day at Sodus August 17.

Des Dolan, Plant Introduction, attended the National Germplasm Committee meeting held at Fort Collins, Colorado September 13-17.

NE-9 held its annual meeting in the Food Research Laboratory conference room on August 17-18.

Ben Clark, Anwar Khan, James Tao, Earle Waters, and

Tom Kenny, Seed and Vegetable Sciences, attended the annual meeting of the Association of Official Seed Analysts in Hershey, PA. June 21-25.

Anwar Khan presented a paper at the Bicentennial Symposium on Seed Vigor and Deterioration.

On June 13, Sam Braverman left for Twin Falls, Idaho and Pullman, Washington. While in Twin Falls, he met with the directors of several seed companies, including Rogers Bros., Gallatin Valley, Desert Seed Co., Northrup King, and Birds Eye. They discussed breeding programs using *Pisum sativum* P.I. germplasm and the danger of P.I. germplasm containing pea seedborne mosaic virus. He also observed field trials with P.I. germplasm. At Pullman, Sam met with Dr. S. M. Dietz, Coordinator, W6 P.I. Station. They discussed methods of detecting possible importation of strains of common bean mosaic virus in seeds of incoming *Phaseolus vulgaris*. He also toured the P.I. facilities and field trials at Pullman and Central Ferry, Washington.

At the Annual Meeting of the American Phytopathological Society in Kansas City July 11-15, papers were presented by George Abawi, Herb Aldwinckle, Al Braun, and Roger Pearson, Plant Pathology. John Gilpatrick, Plant Pathology, as chairman of the APS Chemical Control Committee, organized and chaired a symposium on Resistance of Plant Pathogens to Chemicals. Also in attendance at the meeting were Harvey Hoch, Jim Hunter, Dave Pieczarka, and Jerry Uyemoto, Plant Pathology, and Sam Braverman. While there, Sam met with Dr. R. O. Hampton to discuss a joint project on assaying pea introductions for pea seedborne mosaic virus.

Mike Szkolnik and John Gilpatrick each presented two papers at the Apple and Pear Scab Workshop organized by the Apple and Pear Disease Workers July 11 in Kansas City. Herb Aldwinckle also attended the workshop.

John Gilpatrick attended the Workshop on Pesticide Resistance organized by the FAO in Washington, D. C. in August. John also represented the American Phytopathological Society on the AAAS Ad Hoc Committee on the Effect of Government Regulations on Pesticides.

John attended the Conference on Internal Therapy of Plants at Wageningen, The Netherlands, on August 23-28. He was chairman of the session on Applied Aspects of Resistance.

VISITORS

Dr. Alec Cynczyk, from the Research Institute of Pomology at Skierniewice, spent Sunday, August 1, with Jim and Cindy Cummins. Dr. Cynczyk is involved with apple rootstock and stone fruit breeding in Poland, partly funded with USDA monies.

Quebec fruit growers Richard Saul, Paul Sullivan, and Michel Bussieres visited Henry Bennett, Alan Lakso, and Jim Cummins August 10 and viewed nursery and orchard plots.

Drs. Ronald Morck and Kenneth Ronai, Vice-presidents in the Nabisco Corporation, visited with Gil Stoewsand, Food Science, September 15. Their interests related to naturally occurring toxicants in foods.

Dr. Don Casimir, CSIRO, on a 6-month leave from Australia, spent 6 weeks in the laboratory of Jim Moyer. While at Geneva, he visited a number of food processing plants in the area and got re-acquainted with the friends he made 12 years ago.

Dr. Jost Freuler, Entomologist at Station Federale de Recherches Agronomiques de Changins, Nyon, Switzerland, visited the Hudson Valley Laboratory August 10 and 11. Dick Straub took him on a tour of Orange County muck crops and fruit experiments being conducted. He also visited the Champlain Valley, accompanied by Rick Weires, Dick Straub, and Frank McNicholas, and observed vegetable and fruit farming operations.

The County Agents Fieldmen's Fruit Tour was held September 7 at Highland and continued September 8 and 9

at Geneva and the Sodus area. Approximately 75 persons registered for the tour.

Dave Ophardt brought a group of Hudson Valley fruit growers to Geneva for discussions of fruit production and pest protection with members of the Departments of Pomology and Viticulture, Plant Pathology, and Entomology on July 21-22. A picnic supper was held for the group at the Station Pavilion on the 21st.

Dr. Walter Vogel of Maag Chemical Works, Zurich, Dielsdorf, Switzerland, visited the Department of Entomology on July 2. He is the head of the insect growth regulator program at Maag. While here, he gave a short seminar on their research and testing of their insect growth regulators.

Dr. Frantisek Sehnal of the Czechoslovakia Academy of Science visited the Entomology Department on August 30-31. He is a world authority on insect endocrine interactions. Dr. Sehnal gave a lecture on regulation of the insect corpus allatum (which produces the insect juvenile hormone).

Professor Bonnie Seblak of Smith College, Northampton, Massachusetts, visited with the Department of Entomology staff on September 24. Professor Seblak is a developmental biologist who specializes in electron microscopy. She discussed working with the Entomology Department on the mode of action of insect antidiuretic hormones which were discovered by Bill Bowers.

Dr. Jules Janick, Editor for the American Society for Horticultural Science, visited Walt Kender and Charlotte Pratt this summer. They discussed editorial matters dealing with the Society publications. Dr. Janick met with Charlotte, Pat Krauss, and Ed Broderick to set up a computerized indexing system. Charlotte serves as ASHS Index Editor.

Dr. Eric Hislop from the Long Ashton Research Station, University of Bristol, England visited John Gilpatrick, Herb Aldwinckle, and Mike Szkolnik July 1-2. He presented a seminar on "The Eradication of Overwintering Powdery Mildew of Apple with Chemicals."

Dr. H. P. Maas Geesteranus from the Institute of Phytopathological Research, Wageningen, The Netherlands gave a seminar on "Epidemiology of Fire Blight in Europe" on July 6.

Dr. William J. Moller, Department of Plant Pathology, University of California, Davis, was a visitor in Plant Pathology August 23-27. He made extensive tours of area vineyards with Jerry Uyemoto and Al Braun. He delivered a seminar on "*Eutypa armeniacae*—A Vascular Parasite of Apricot and Grapevine."

Dr. Joseph Kuc, Professor of Plant Pathology at the University of Kentucky, Lexington, visited Plant Pathology September 23 and gave a seminar on "Activation of Latent Mechanisms for Disease Resistance."

Dr. Kazimierz Smolarz, Research Institute of Pomology, Skierniewice, Poland, visited with Al Braun and other members of Plant Pathology in July.

A group of plant pathology students taking the field course with Drs. Arneson and Beer visited the Plant Pathology Department on a field trip July 6.

Dr. O. F. Esuruoso, Chief of the Phytopathology Unit, Department of Agricultural Biology, University of Ibadan, Nigeria, spent August 16-17 visiting in Plant Pathology.

Dr. Boleslaw E. Bera from the Research Institute of Pomology, Skierniewice, Poland toured Wayne County fruit orchards and viewed aerial spraying equipment at Savannah with Mike Szkolnik on August 28. Dr. Bera visited with Mike and others in the Plant Pathology Department on August 30.

WEDDING BELLS

Steve Heller, Food Science, and Joan Schmidt were married in the Lutheran Church, Ithaca, on October 2. The couple will be residing in Geneva. Joan is employed by the Newark Hospital. Steve is studying for his Ph.D. degree under the direction of Ross Hackler.

Sgt. Michael Szkolnik, son of Mike and Louise Szkolnik, Plant Pathology, married Donna Moreno in Gulfport, Miss. on August 5. Michael was recently transferred from Kessler AFB, Miss. to Dover AFB, Delaware where he and Donna will be living.

Ellen Charles, Seed and Vegetable Sciences, and Michael Chirco, an industrial arts teacher from Rochester, were married June 26 at Norton Chapel, Keuka Park. They will be at home at 79 North Street, Canandaigua.

SYMPATHY

We extend our sympathy to Sandy Davis on the death of his mother, Mrs. M. B. Davis, in Carp, Ontario, Canada, September 16.

STORK NEWS

Congratulations to Yuriko and Tomihisa Ohta, Entomology, on the birth of their daughter, Reiko, September 16; Lisa and Paul Wilck, Food Science, on the birth of their daughter, Lisa, on August 18; Carolyn and Bob Seem, Plant Pathology, who had a daughter, Jessica Elizabeth, on September 7; and Ann and Don Cobb, Plant Pathology, on the birth of their daughter, Pat Carey, on September 16.

THE CHATTER BOX

Jim Shepard, recently a Visiting Fellow in Plant Pathology, has been appointed Chairman of the Department of Plant Pathology, Kansas State University, Manhattan. Jim was previously at Montana State University, Bozeman.

Mrs. Janice Allen has been appointed a bookkeeper in the office of the New York State Fruit Testing Association effective September 20. Mrs. Allen was employed in the Entomology Department for Dr. Chapman several years ago and more recently worked in the Department of Social Services in Canandaigua.

On Friday, August 6, the Department of Entomology turned out en masse for a steak roast at the Recreation Pavilion. Jeanne Cleere was in charge of the event.

Ross Hackler, Food Science, was a guest on WGVA's noontime program, Conversation, with Steve Heller in August. They discussed the role of fiber in the diet.

Robert Pool, Don Splittstoesser, Richard Nelson, A. N. Kasimatis, and Willard Robinson served as judges at the Second Annual Amateur Winemakers contest in Silver Creek, N. Y. on September 25. Lieutenant Governor Krupsak was on hand to present the grand champion trophy for the best wine, a Pinot Chardonnay.

The Department of Food Science and Technology held a department pig roast at the Recreation Pavilion on September 18. Department members and families attended.

GENEVA JOB OPPORTUNITIES

Laboratory Assistant III, NP-5—Department of Plant Pathology
Research Associate—Northeast Regional Pesticide Laboratory, Food Science and Technology
Post-doctoral Associate in Insect Toxicology—Natural Product Chemistry—Entomology
Post-doctoral Associate—Seed and Vegetable Sciences

CLASSIFIEDS

FOR SALE. Several copies of the excellent new preserving manual, "Putting Food By" by Hertzberg, Vaughan, and Greene, Stephen Greene Press, 2nd Ed., 1975 (at a discount—\$4). Also, White Cochins bantams, tame and gentle for pets; winter well. Also, mounted whitewall snow tires—6.85 x 15 (for VW, etc.) Bob LaBelle, 787-2263.

FOR SALE. 1970 2-door Maverick. Make offer. Bob Lamb, 789-3077.

LEFTOVERS. Miscellaneous plates were found in the Food Science conference room after the North American Fruit Explorers meeting on September 17. Also, a few pieces of cutlery were left after the Food Science Pig Roast. Call Rita Reissig at 787-2256 if you are missing any of these items.

WEATHER			
	Max.	Min.	Rain
July 1	74	58	.30
2	71	56	
3	71	59	.08
4	71	57	.07
5	73	57	
6	82	59	
7	84	65	
8	75	62	.22
9	77	56	.23
10	75	56	
11	82	65	.25
12	86	60	1.34
13	64	53	.60
14	61	56	.12
15	72	56	
16	78	63	
17	77	54	.11
18	69	55	
19	77	63	
20	84	62	
21	83	66	.17
22	75	54	tr.
23	77	62	
24	76	64	.04
25	75	51	
26	69	47	
27	81	66	
28	80	60	tr.
29	79	63	
30	72	64	.89
31	69	59	.01

WEATHER			
	Max.	Min.	Rain
August 1	75	57	.49
2	68	52	
3	67	47	
4	74	52	
5	80	60	
6	80	60	.23
7	65	54	.16
8	68	55	.51
9	71	60	.04
10	67	60	tr.
11	77	56	
12	83	63	
13	80	66	.23
14	80	59	.75
15	75	63	.15
16	70	54	.04
17	70	56	
18	77	58	
19	76	51	
20	80	55	
21	84	61	
22	85	62	
23	84	62	
24	79	53	
25	74	53	
26	84	61	
27	83	65	.03
28	82	66	
29	86	62	.15
30	68	49	
31	61	42	

WEATHER			
	Max.	Min.	Rain
September 1	72	54	
2	73	52	.34
3	62	39	
4	72	53	
5	74	56	.01
6	63	46	
7	65	53	
8	78	61	
9	81	56	
10	82	58	.45
11	65	48	.03
12	59	44	.14
13	79	51	
14	81	55	
15	81	63	
16	77	59	.11
17	70	61	.41
18	75	57	.65
19	70	60	.03
20	76	57	tr.
21	68	47	.05
22	61	44	tr.
23	55	39	.03
24	65	40	.07
25	56	37	
26	65	42	
27	60	51	.85
28	55	45	.02
29	52	39	
30	65	44	