



STATION NEWS

A House Organ for Station Employees
Not for Publication Without Consent

Vol. 86, No. 9
August 31, 1972

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New York State Agricultural Experiment Station, Geneva

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CALENDAR OF EVENTS

POMOLOGY DEPARTMENT CHANGES NAME

- September 7—10:00 a.m.—Jordan Hall—Wine Meeting for Amateurs
- 8— 9:00 a.m.—Jordan Hall—Wine Meeting for Amateurs
- 8— 9:00 a.m.—Tour, School of Horticulture Students, Niagara Parks Commission, Niagara Falls, Canada
- 12— 8:00 p.m.—Staff Room, Jordan Hall—Agricultural Extension Committees of Seneca, Wayne, Ontario, and Yates Counties
- 13—10:00 a.m.—Staff Room, Jordan Hall—Nutrition Education Program
- 21—10:00 a.m.—Jordan Hall—New York State Fruit Testing Cooperative Association's Annual Meeting
- 24— 7:30 p.m.—Staff Room, Jordan Hall—Zero Population Group
- 27—10:00 a.m.—Staff Room, Jordan Hall—Expanded Nutrition Education Program

What used to be the Department of Pomology here at the Station is now the Department of Pomology and Viticulture.

The name change has been approved by the Board of Trustees of Cornell University at its most recent meeting.

For years, pomology, or the study of fruits, has been of major interest at the Experiment Station. The Station is known world-wide for its apple breeding research program having named 52 new varieties of apple since the institution's founding in 1882. For a number of years, viticultural research, or work on grapes, has gained in prominence in the overall program in pomology.

Major contributions to the grape industry through the Station's research program include the definition of nutritional requirements of grapevines, the development of a balanced pruning concept, the development of the Geneva Double Curtain system of trellising grapes, and, in cooperation with the Station's Department of Food Science and Technology and the Department of Agricultural Engineering on the Ithaca campus, the development of the mechanical harvester.

Because of these contributions, the Station has been acclaimed internationally for its achievements. In addition to the changes in cultural techniques has come a demand for change in varieties from New York's expanding grape industry. For example, New York's wine sector requires larger quantities of grapes suitable for table wines. The newly named Department of Pomology and Viticulture is engaged in a comprehensive grape breeding program.

Responsible for these research advances is a highly competent staff, plus a laboratory at Fredonia, New York that is devoted exclusively to viticultural research. This laboratory is in the heart of the western New York grape belt.

Grape research at the Station has brought about some of the most dramatic changes in the industry of any segment of agriculture in New York. With the help of technical advances gained through research, the yield of New York's vineyards has more than trebled since the 1940's. The wine industry has shown particularly rapid growth and a potential for future expansion. Finally, the value of grapes in New York equaled that of apples in 1971, or about \$40 million.

TWO STATION SCIENTISTS RECEIVE HONORS

Nelson J. Shaulis and John C. Cain, members of our Department of Pomology and Viticulture, have been elected Fellows of the American Society for Horticultural Science.

This is among the most coveted awards given to outstanding scientists in the horticultural community. Nelson and John join two other members of our Pomology and Viticulture Department, George Slate and John Einset, in having received this honor in the 8-year history of the award. There are over 3,200 members in the Society, and approximately 15 Fellows are elected from this group each year.

Nelson Shaulis came to the Station in 1944 as an assistant professor of pomology. Although he had a strong background with such fruits as apples, he was assigned the responsibility of research on grapes, then just a budding industry in New York State. Since those early days, he has become one of the leading viticulturists in the world and is considered to have made some of the most noteworthy and practical contributions to grape growers not only in the Empire State but in other parts of the country and world as well.

Among Nelson's accomplishments that have led New York to become the second largest grape and wine producing state in the country are the development of recommended fertilizer rates to promote growth, production, and high quality grapes, a thorough study and set of recommendations on the effect of cold on grapes and how cold tender varieties of grapes can be grown in New York State, procedures for the best method of replanting a vineyard where an old vineyard was previously located, and the response of grape varieties to various pruning techniques.

One of the most significant contributions to the grape industry was Nelson's work on training vines to provide greater leaf exposure. This eventually led to an entire new system of training grapes called the Geneva Double Curtain which not only improves maturity of the fruit but which can also increase production by as much as 40-90 per cent using the same number of vines on the same acreage.

Because of his knowledge in the field of viticulture, Nelson has frequently been called upon to assist or advise others throughout the world. In 1962, he spent the fall studying grape culture in France, Switzerland, Germany, and associated areas. In part of 1967 and

1968, he was awarded a Fulbright Grant to conduct viticultural research in Australia.

Second of the Station's ASHS Fellows this year is John Cain. As a research pomologist for over 30 years, he has become widely known for his outstanding contributions in the field of plant nutrition. His studies demonstrating nutrient uptake and interactions in fruit plants have been universally recognized by other scientists. More recently, John has spent considerable time on mechanical pruning and harvesting of trees and the matter of tree spacing. It is expected that this research will pave the way for future development of highly efficient orchard practices where best use is made of land available.

John came to the Station in 1946 after completing his Ph.D. degree at Cornell University. He was promoted to professor of pomology in 1951. Besides his great interest in nutrition, mechanical pruning techniques, and mechanical harvesting of fruit trees, John has developed a number of inventions that have provided new types of research tools for his fellow scientists throughout the world.

In 1954-55, he served as a Horticultural Advisor to the Catholic University in Santiago, Chile and in 1964 as a Consultant at the Inter-American Institute for Agricultural Science in Turrialba, Costa Rica.

STATION CLUB CLAMBAKE SEPTEMBER 17

The Station Club is sponsoring a clambake to be held Sunday, September 17, at 2 p.m. at the Oaks Corners Community Park. The menu includes raw and steamed clams, salt potatoes, clam chowder, cheese and crackers, sausage and peppers, hamburgers and hot dogs, corn on the cob, salad, draft beer, and pop. The price is \$5.00 per person, Station Club members, and \$6.00 per person, non-members. The final day to purchase tickets is Friday, September 8, from your Station Club representative.

SERVICE PINS AWARDED

Station employees who have completed 5, 10, 15, or 20 years of service as of June 30, 1972 were honored at a service pin award ceremony August 25 in Jordan Hall. Refreshments were prepared and served by Mary Lou Dumbleton and Joyce Batson. Director Barton, Clarence Kunz, and department heads presented pins to their respective employees.

The following employees received pins: Entomology—Dorothy Lynch, 10 years; Food Science—Roberta Vickery and Grace Parsons, 15 years; Stanley Comstock, Arthur O'Neill, and Robert Butts, 10 years; Robert Landschoot and Alfred Mazingo, 5 years; Plant Pathology—Stuart Bishop, 20 years; Donald Crosier, 10 years; Rose McMillan and Eunice Williams, 5 years; Pomology and Viticulture—Sue Dwyer and Dona Nedrow, 5 years; Seed Investigations—Dorothy Kline and Joseph Armitage, 15 years; Dora Pederson, 10 years; Judy Rector, 5 years; Vegetable Crops—Audrey Emmo, 10 years; Mary Elizabeth Porterfield, Albert Hauf, and Alda Blamble, 5 years; Publications—Rita Curtin, 5 years; Farm Services—Glenn McGuigan, 15 years; Greenhouse and Grounds—Paul Rooney, 10 years; and Administration—Kay Schurstedt, 15 years; Stanley Lynn, 5 years.

STEINKRAUS TO GO ON SABBATICAL LEAVE

Keith Steinkraus, Department of Food Science and Technology, has been granted a 6-month sabbatical leave starting early September. He will teach and advise senior students of the Department of Applied

Biology and Food Science at Polytechnic of the South Bank, London, England. While in England, Keith plans to continue research on chemical and enzymic differences between American and European honeys. Mrs. Steinkraus and three of their children, Karen, Nancy, and Don, will accompany him to England. Anna will spend the Christmas recess with them.

PLANT PATHOLOGY HONORS BOB GILMER

Plant Pathology Department hosted a dinner at the Town Pump restaurant on Tuesday, August 29, for Bob Gilmer in appreciation of 5 years as department head and to bid him and his wife, Eleanor, Bon Voyage for their forthcoming trip to Nigeria. Forty members, spouses, and friends attended. Bob was presented with a chess set made of carved rock and promptly announced plans to include Iceland in his itinerary. Bob is going on a 2-year leave to the University of Ibadan, Nigeria sponsored by the Ford Foundation. He will be setting up research and teaching programs in plant virology.

APPOINTMENT

Dr. Frank Pflieger has recently been appointed plant pathologist in Plant Introduction. He is filling in for Sam Braverman who is currently on a 2-year leave in Nairobi. Frank just received his Ph.D. degree from Oregon State University. He is married and has two daughters and is presently living on McIvor Road.

MERRILL APPOINTED ASSOCIATE DIRECTOR OF EXTENSION

Professor William G. Merrill, animal scientist, has been appointed associate director of Cooperative Extension effective March 1, 1973. Professor Fred E. Winch, Jr., presently acting chairman of the Department of Natural Resources, will be acting associate director from August 1 until March 1.

OZBUN APPOINTED VEGETABLE CROPS HEAD

Professor Jim L. Ozbun has been appointed chairman of the Department of Vegetable Crops at the New York State College of Agriculture and Life Sciences at Cornell. His appointment is effective September 1. Professor Ozbun, an associate professor in the department, succeeds Edwin B. Oyer, who has become associate director of the newly established Asian Vegetable Research and Development Center in Taiwan.

MEETINGS

George Abawi, Plant Pathology, presented a paper at the annual meeting of the Society of Nematologists held August 1-4 at Raleigh, North Carolina.

George Slate, Pomology and Viticulture, attended the 63rd annual meeting of the Northern Nut Growers Association August 21-23 in Ames, Iowa. Dr. L. H. MacDaniels, Professor Emeritus of the Department of Floriculture and Ornamental Horticulture at Ithaca, accompanied George to this meeting.

Herb Aldwinckle, Al Braun, Andy Granett, Frank Polach, and Mike Szkolnik, Plant Pathology, presented papers at the annual meeting of the American Phytopathological Society in Mexico City August 7-10. After the meeting, several of them stayed on to delve deeper into Mexican agriculture, archaeology, oceanography, and handicrafts. Al Braun and Herb Aldwinckle hosted an informal symposium on "Inhi-

bition of Gyrotory Motion by Maternal Presence" in Merida. They also viewed sisal-hemp production in the Yucatan Peninsula. Herb later had a first hand experience of some depilation techniques practiced in Guatemala and went on to Honduras to survey banana and coconut problems.

Walt Kender, Jim Cummins, Nelson Shaulis, Don Ourecky, and Bob Lamb, Pomology and Viticulture, recently attended the annual meeting of the American Society for Horticultural Science in Minneapolis. Marvin Harris, Entomology, also attended and presented a paper co-authored with Bob Lamb entitled "Breeding Pears Resistant to Pear Psylla." Don Ourecky spoke on "Breeding for Firmness in Strawberries" and Jim Cummins on "Breeding Disease Resistant Apple Rootstocks." While at the meeting, Bob Lamb attended the special workshop on Breeding Fruits Resistant to Insects. Chick Forshey and Wayne McKee of the Hudson Valley Laboratory also attended the meeting.

Marvin Harris, Clara Splittstoesser, and Clinton Kawanishi, Entomology, attended the annual meeting of the Society for Invertebrate Pathology at the University of Minnesota. Clara presented a paper on histopathology of the European chafer, *Amphimallon majalis*, infected with *Bacillus popilliae*.

The New York State Wine Industry Technical Advisory Panel held in Jordan Hall August 17 was attended by 75 representatives from approximately 25 various wineries and industries. Don Downing, Keith Steinkraus, C. Castellano, Nelson Shaulis, Geza Hrazdina, and John Einset participated in the program.

Bob Shallenberger, Food Science, attended the International Symposium on Carbohydrate Chemistry August 14-18 in Madison, Wisconsin. He presented a paper concerning the industrial use of carbohydrates.

John Bourke, Reginald Walter, Bob Shallenberger, and Y. D. Hang, Food Science, attended the American Chemical Society meeting the week of August 28 in New York City. Hang presented his paper, "Utilization of Sauerkraut Waste."

VISITORS

Dr. Gordon Birch of Surrey, England visited with Bob Shallenberger in our Food Science and Technology Department on August 10 to discuss the relations of chemical structure to sweet and bitter taste.

Dr. Kiku Murata of Osaka City U., Japan met with Keith Steinkraus, Food Science, August 15 to confer on fermented foods.

Dr. James E. Tillotson, Director of Research of Ocean Spray, met with Director Barton, Director Baker, and Willard Robinson on August 15 to discuss research programs and mutual interests.

Dr. A. I. Zirlin of the Center for Industrial Research, Haifa, Israel visited Malcolm Bourne August 28 and 29 to discuss rheology and food texture measurements.

Dr. Erwin Steinbuch, Sprenger Institute, Wageningen, The Netherlands, spent August 28 and 29 visiting with John Stamer and Don Downing, Food Science. He was primarily interested in vegetable fermentations. Dr. Steinbuch, coming from the institute where Jerry Van Buren has spent a year's sabbatical leave, is a harbinger of the Van Buren's return September 1.

Dr. Joe King of the Rochester Regional Market and a Cornell University Trustee and H. P. Gioia of the Bravo Company, Rochester recently toured our Food Science and Technology Department facilities.

Dr. Merrill Cleveland, formerly of the Fruit and Entomology Section of the old Entomology Research Division and now on the National Planning Staff of

the reorganized Agricultural Research Service, visited with our entomologists August 22 and 23. He was particularly interested in reviewing Bart Fiori's program and the red-banded leaf roller trapping experiments.

Dr. Martin Barnes, Department of Entomology, University of California, Riverside, spent some time visiting insect control experiments in Wayne County with Ed Glass and Ken Trammel. He also spent a day visiting the Entomology-Plant Pathology Laboratory. Dr. Barnes is Bob Butts' brother-in-law.

BIRTH

Paul and Mary Ann Robbins, Entomology, have a new daughter, Jenifer Rebecca, born August 7. She tipped the scales at 8 pounds 1½ ounces.

DEATHS

Station friends of Dr. and Mrs. John Atkin were saddened to learn of the death of their 15-year old daughter, Christine. Christine died as a result of a freak electrical accident on August 17. Many of you will recall that John Atkin was a member of our Vegetable Crops faculty for a number of years working primarily on snap beans. His present address is 832 Alturas Drive, Twin Falls, Idaho 83301.

Sympathies of the entire Station are extended to Ruth Sullivan on the death of her husband and to Frank Consolie and Bill Arehart on the deaths of their fathers. All these employees are in Entomology. Sympathies are also extended to Monica Juffs, Publications, on the death of her father-in-law.

WEDDING

Congratulations to Joseph Braun, Pomology and Viticulture, on his marriage to Robin Trail on August 19. Robin worked one summer in our Library, and Joe is working on his Ph.D degree.

SAFETY COMMITTEE NOTICE

It has been reported to the Safety Committee that some vehicles, both Station and personal, are being driven on campus at speeds not reasonable and prudent.

With tractors, spray rigs, lift trucks, and other slow-moving equipment using our campus roads, and with employees and visitors working and walking about the Station grounds, it is mandatory that extreme care be exercised at all times.

We are all responsible for the safety of others, as well as our own.

NOTES OF INTEREST

Entomology Department had such a good time at the Station Club picnic that its members decided to have one of their own. This was held on August 4 at George and Kathy Schaefer's home. The excuse for picking that date was that it coincided closely with Marvin and Carol Harris' departure from Geneva. An excellent time was had by all.

Helen Melious, Entomology, has returned to work following the wedding of her daughter Terry to Tom Allen on August 4.

Cards received from such exotic places as Beirut, Pakistan, and Bangkok indicate that Wendell Roelofs has made his planned trip to Australia from Europe to attend the International Entomology Congress in Canberra. Wendell is on sabbatical leave in Holland.

Fred Taschenberg from our Vineyard Laboratory in Fredonia came to Geneva August 23 and spent the

day with members of our Department of Entomology

Rose McMillen of the Entomology-Plant Pathology photo lab attended a week-long photographic technology course at the new RIT campus. The school was sponsored by the Professional Photographers Society of New York from August 20-26.

Terry Acree, Food Science, has been awarded a Fulbright-Hays grant and will be leaving September 1 for Portugal. While at the Departamento de Tecnologia Centro Nacional de Estudos Vitivinícolas in Dois Portos, Terry will be researching Portuguese musts, wines, and brandies using gas liquid chromatography. He and his wife, Anne, are expected to return in May 1973.

Willard Robinson, Food Science, has been appointed chairman of the Food Chemical Codex Subcommittee of the National Research Council's Food Protection Committee.

Don Ourecky, Pomology, was a recent guest of George and Katy Abraham on the Green Thumb television program on Channel 13. Don discussed various small and minor fruits, their culture and characteristics, with the Abrahams.

CLASSIFIEDS

For Rent: 3-room furnished apartment, private entrance, upper Lewis Street. Mrs. Hancy 789-3917.

Chair Caning: Donna Carruth 787-2216 or 596-6804.

WEATHER

	Max.	Min.	Rain
August 1	75	58	
2	81	61	.57
3	76	64	1.55
4	78	56	.28
5	63	46	
6	70	50	
7	77	53	.06
8	78	59	.15
9	70	57	.04
10	73	50	
11	67	50	
12	74	59	.02
13	77	59	
14	78	62	
15	81	51	.99
16	69	49	
17	72	57	.10
18	68	58	
19	78	60	.01
20	78	55	
21	76	54	
22	82	60	
23	84	67	
24	85	67	tr.
25	85	67	
26	85	60	
27	86	67	.01
28	83	65	.03
29	78	63	
30	78	57	
31	77	54	