

David Quick Award Honors 4-H'ers



Left to right, Joe and Melinda Vanderfeltz, Heather Pease, Jessie Sartell, Jim and Marilyn Quick.

MONTROSE (Susquehanna Co.) — Marilyn Quick and her children Cara, Melinda, Jim and Reggie and their families set up the David Quick 4-H Memorial Fund through the Susquehanna County 4-H Program to recognize outstanding 4-H members. A savings bond was awarded to the grand champion

senior showman, Heather Pease and the grand champion junior showman, Jessie Sartell at the Susquehanna County 4-H Dairy Roundup. Both Heather and Jessie belong to the North Jackson 4-H Club.

A savings bond will be awarded at the Harford Fair at the colored breeds and a

bond at the Holstein youth dairy show for the champion owned and bred animal. A scholarship will also be given at the Susquehanna County 4-H achievement night in October.

Dave Quick became 4-H Club member in Wayne County when he was 10 years old. Quick took the capon and electricity projects before starting to show Jersey cattle. Along with showing dairy animals, Quick participated in dairy judging and received a gold medal for his dairy project work at a National Awards program. While a 4-H member, Quick was selected as having the best Jersey project in Pennsylvania and honored at a State Dairyman's Banquet. As a 4-H member, Quick did radio programs and was on County Council.

In 1964, Quick became a leader in the Rushville 4-H Club, serving both at the club and county leader levels. Quick announced the County 4-H Dairy Roundup last August, an example of his continuing dedication to the 4-H program. Quick was a Susquehanna County 4-H Leader for over 36 years.

The memorial fund will serve to remind 4-H members and leaders in Susquehanna County of the importance of the 4-H program in David Quick's many years of participation and service in the 4-H program.

Hort Show Offers International Gardens Tour

UNIVERSITY PARK (Centre Co.) — Visitors can take a gardening tour around the world without leaving Pennsylvania's borders at Penn State's 87th annual Horticulture Show, from 10 a.m.-5 p.m. Saturday, Sept. 9, and from 9 a.m.-5 p.m. Sunday, Sept. 10, here in the Ag Arena.

The show, sponsored by the College of Agricultural Sciences' student Horticulture Club, focuses on "Landscapes of the World: Uniting People Through Horticulture." Many of the displays feature themed gardens designed to showcase how different nations approach landscape gardening.

The themed gardens will include a Japanese meditative garden, an American vegetable and landscape garden, an Australian garden, a Mexican tropical garden, an English formal garden and an English children's garden, which features a hedge maze.

"The Horticulture Show is really a year-round process," said Mike Wimmer, 22, a senior from Quakertown ma-

joring in landscape contracting and one of four co-managers of the show. "We start planning and calling for donations for next year's show right after the current show closes."

The Horticulture Show also features a farmer's market, where visitors can buy all types of vegetables, fruits, pumpkins, and cider. Those interested in solving a gardening problem can stop by the Ask the Experts table, which is staffed throughout the show.

The Horticulture Show is planned, designed, and constructed by students in the Horticulture Club. More than 60 students participate in the event each year.

Plants used at the exhibit will be on sale during the show. Buyers can place reserve tags on the plants and pick up their purchases after 5 p.m. on Sunday, Sept. 10. There also will be more than 700 mums on sale. The plants that are not purchased are used by Penn State's Office of Physical Plant in landscape plantings around the campus.

The show features more than 200 woody ornamental shrubs and trees, and from 50 to 100 different varieties of perennials.

"Proceeds from the show go toward operating the Hort Club," said Dan Stearns, associate professor of landscape contracting. "The club uses the funds to sponsor educational trips, scholarships, social activities, and charitable donations."

Stearns estimates that from 5,000-8,000 people visit the event each year. The event is timed to open on the same weekend as Penn State's second home football game, which features Penn State versus Louisiana Tech. "Attendance to our event varies, depending on the football game," Stearns said. "If the game is one-sided, we get a few more visitors. If it's a close game, we'll get a few less."

Admission to the show is free. The Agricultural Arena is located on Park Avenue across from Beaver Stadium on the University Park campus.

New Soybean Varieties Have Health Benefit

COLUMBUS, Ohio — Now Ohio farmers can raise soybeans that lead to healthy hearts.

Two new soybean varieties that produce soybean oil with about half as much linolenic acid as current varieties have been released by Ohio State University's Ohio Agricultural Research and Development Center.

The soybeans offer health and taste benefits for consumers and a possible price premium for soybean growers, said Steve St. Martin, an OARDC agronomist who helped develop the varieties.

Almost 99 percent of soybeans are crushed, and their oil is extracted for use in margarine, salad oil, cooking oil and other edible oil products.

"Soybean oil contains five different fatty acids, and so does the oil from these new varieties," St. Martin said. "But the acids are in different proportions."

Normal soybeans produce oil with 7 percent to 8 percent linolenic acid. The new varieties, designated HS95-4907 and HS95-4908, produce oil with 3 percent to 4 percent linolenic acid, he said.

That's important because when processors hydrogenate soybean oil to make food products, the linolenic acid in the oil can form trans fatty acids. Some studies have linked trans fatty acids to heart disease.

"By lowering the linolenic acid content of soybean oil, there will be little or

no production of trans fatty acids during hydrogenation," he said.

Linolenic acid also is somewhat unstable and picks up oxygen during cooking and storage. This can result in bad odors and poor flavor.

"Food scientists say soybean oil with reduced linolenic acid tastes better than normal soybean oil," St. Martin said. "Food scientists also agree it's good to reduce linolenic acid, but not eliminate it."

Linolenic acid may have some cardiovascular benefits and is an essential fatty acid in the human diet.

Growers who raise the low linolenic acid soybeans could earn an extra 30 cents per bushel. Obtaining a premium price is essential for growing the new varieties to be economical because they do not yield as well as normal soybeans, St. Martin said. In tests, the new cultivars yielded about 48 bushels per acre, compared to about 53 bushels per acre for normal varieties.

Low linolenic acid varieties developed in the next year or two should have higher yields, he said.

"It's going to take an entrepreneur to successfully grow these varieties, because in addition to growing them you have to sell their benefits and find an outlet willing to pay more for them, and store and process them separately from other soybeans," he said. "Ultimately, the success of the new varieties will depend on whether consumers are willing to pay more for what they're getting."

The new cultivars carry the "fan" gene for reduced linolenic acid concentration. The "fan" gene occurs as a natural mutation in some soybean varieties. The new OARDC cultivars were developed through conventional cross breeding of varieties that contain the "fan" gene and varieties that are adapted to grow well in Ohio.

The new varieties are resistant to phytophthora rot, a soybean disease common in Ohio. They also mature early in the fall, making them suitable for northern Ohio, particularly when planting wheat after soybean harvest, St. Martin said.

Development of the low linolenic acid varieties began in 1991 and was supported by an OARDC Interdisciplinary Team Research grant. The Ohio State University research team consisted of St. Martin, plant pathologist Anne Dorrance and food scientist David Min.

Farmers who wish to grow the HS95-4907 and HS95-4908 varieties can get seed through a license from the Agricultural Genetics Research Association or AGRA - an association of small- and medium-size seed growers in Ohio. A portion of the profit from the sale of the seed goes to Ohio State University to support further soybean breeding research, St. Martin said.

For more information about the low linolenic acid soybean varieties, contact St. Martin at (614) 292-8499 or smartin++@osu.edu.

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