

## **School of Forestry Bring American Chestnut Back to the Keweenaw**

Back in the late 1980s, when Terry Sharik was teaching at Michigan Tech's School of Forest Resources and Environmental Science—then called the School of Forestry and Wood Products—he discovered what he calls “one of the finest forest-grown large American chestnut trees I have ever seen.”

The tree was 70 feet tall, towering over the closed-canopy forest that covered what is now the parking lot of the BHK Child Development Center in Houghton. It was a magnificent specimen of *Castanea dentata*, the regal, saw-toothed American chestnut.

Sharik had seen hundreds of other American chestnuts. But they were stunted stump sprouts, all that was left of the American chestnut after chestnut blight wiped out the large trees across their home range from Appalachia through the eastern United States. Outside that range, in Wisconsin and Michigan, some chestnuts survived.

Sharik had a special fondness for that rare, remaining specimen. So when he returned to Houghton for a professional meeting in the mid-nineties, he went to visit the chestnut tree. Imagine his horror when he discovered that the tree—and the most of the forest that had surrounded it—were gone, victims of the expansion of the child development center.

“I can't begin to tell you how empty I felt,” says Sharik. When he returned to Michigan Tech as dean of SFRES in 2012, one of his goals was to someday return the American chestnut to the BHK site it used to call home.

That dream has come true. This fall, SFRES is planting 16 American chestnut seedlings in four locations, including BHK. The last of the seedlings will be planted in a public celebration at BHK this Sunday at noon, after the Keweenaw Unitarian Universalist Fellowship (KUUF) services at the child development center. Sharik is a member of KUUF. Members of the fellowship have worked closely with SFRES on plans for the planting, and they will serve chestnut recipes after the planting ceremony.

“We are so excited,” Sharik says. The chestnut tree project traveled a long road, full of potholes and dead-ends. There is an American chestnut near Erickson's Feed & Seed, another off Pilgrim Road. The Forestry folks tried to propagate branches from those trees, soaking them in rooting hormone. But nothing worked.

“They are very persnickety,” says Karena Schmidt, greenhouse and soil lab manager at SFRES. The chestnut tree project has been her special baby.

Schmidt located a nursery in Wisconsin that sells American chestnut trees grown from seed. So SFRES bought 16. The seedlings were just 12 inches tall when they arrived at the SFRES greenhouse last spring. Schmidt nurtured them in containers all summer, and they grew and thrived.

Now about three feet tall, they've been planted at the A. E. Seaman Mineral Museum, the Marsden Center and the woods between the SFRES buildings and the US Forest Service headquarters. Preschoolers planted three of the remaining four seedlings at BHK last week, and the 16<sup>th</sup> little tree will be put in the ground at BHK this Sunday.

Is this an odd time of year to plant young trees? "Fall is an OK time to plant them," Schmidt replies. "We're taking a bit of a risk, but they are deep-rooted, and they'll be better off in the ground than in containers once the snow starts coming."

It will be eight years until the new trees produce chestnuts. It takes two trees to pollinate and bear nuts, which is one reason they were planted in groups of four.

Eventually, the American chestnut can grow to nearly 100 feet tall.

"It's a beautiful tree, and we hope it finds a happy home here with our northern hardwoods," Schmidt says.

She also shared a little-known chestnut factoid. American chestnuts are not related to the common horse chestnut seen around the area. "The horse chestnut was totally misnamed," says Schmidt. "It's not a chestnut, and horses don't like it."

