A&M prof says water-soaked wood makes better violing

University News Service

Dr. Joseph Nagyvary, professor of biophysics and biochemistry, said new evidence shows the wood Stradivari used to make his violins was soaked in water - not dry seasoned as is commonly believed.

Modern violins are made with wood that has been seasoned, a process Nagyvary says is a great mistake and diminishes the quality of sound.

Nagyvary said microscopic examination of wood samples taken from several violins made by Stradivari, Guarneri and other important 17th and 18th century Italian craftsmen revealed century-old traces of fungi that altered the shape of the wood cells. The fungi could have come only from the country important important in the said. water immersion, he said.

Several years ago, Nagyvary, who has carried on a long-standing love affair with violins and violin making, discovered a dramatic difference between the wood used in a Guarneri instrument and what is used in modern violins.

Using electron microscope photographs provided by James R. Scott at A&M's Electron Microscopy Center, Nagyvary found a larger amount of the pit holes in the Stradiveri wood cells were open, compared to the holes in commercial tone wood, which is dry seasoned.

Recently, he discovered the presence of water fungi, which eat away gummy material in the wood and make it lighter

and dryer. The fungi also force the cell walls to separate or loosen up.

To determine if he could corroborate the evidence he gleaned from the fungi with historical information, Nagyvary traveled to Europe and examined old shipping records stored in villages and monasteries. The records showed logs had been sent

downstream along the rivers leading from the Tyrolean Alps, the Bolzano area — where much of the wood used for violins was cut - to the Italian towns where the in-

"Most (modern) violin makers have denied that water transportaiton of the logs was important," he said. "They insisted that the (Italian) violin makers went to the Alps and got their wood dry, just like the German makers who settled in the Alp valley of Mittenwald. But these makers never

made great violins."

Nagyvary said he found additional evidence about water immersion in the minerals deposited on the wood. He said the ratios of calcium, potassium and sodium found on the wood exactly match the minerals found in many waters of Lombardy, and even correspond with the proportion found on the labels of bottled mineral waters from northern Italy.

Using his new-found knowledge, Nagy-vary commissioned craftsmen in Bulgaria, Hungary and Italy to make 18 violins from wood, on which the amphibian fungi had

"According to unbiased musicians, the violins are very strongly similar in tonal quality to the old Italian violins," he said.

He said the musicians in the Houston Symphony Orchestra, Oberlin College and the Curtis Institute of Music in Philadel-phia are using his violins. Top violinists such as concertmasters Glenn Dicterow of the New York Philharmonic and Victor Aithe New York Philiar monic and Victor Al-tay of the Chicago Symphony Orchestra have played and praised earlier instru-ments he developed several years ago. Nagyvary's research has been difficult because of a lack of funding for his re-

search and the scarcity of wood

He said it took 10 years to fin separate samples, which were p him by the curator of instr U.S. Library of Congress in The samples were taken from made by Stradivari and two

during the course of repairs.

Many violin dealers and given little credence to his da acoustical consequences of composition.

They deny it because it i barrassing to admit that mo made of the wrong wood d 150 years," Nagyvary said, wrong is that the seasoning o bad. For the afficionado, it w accept that the missing secre behind the Stradivari tone is n genuity but merely a fungus.

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