Business

Jim VanNatta brings Thermal Vortex System to Shelbyville. Page A3



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Sports Gymnast of the Year flips to award. Page B1

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BUSINESS



Ren Jhala, left, owner of Thermo Transfer Inc., and Jim VanNatta, chairman and CEO of VanNatta WorldWide, pose in front of the V-3 Thermal Vortex Unit built in Shelbyville at Thermo Transfer.

Local company aims to reduce waste, produce clean energy

By ANDY PROFFET aproffet@shelbynews.com

landfills didn't pose the make it a reality. environmental concern The Thermal Vortex municipalities on their they pose today. So the System was essentially energy policies for things concept of converting created over 40 years ago like wind and solar and waste to technology didn't here in Shelbyville. Six compressed natural gas have the immediacy it years ago, VanNatta for their public vehicles," does today. brought it back.

But the idea was there,

"Back in July 2008, I and Jim VanNatta and had started an alternative Forty-some years ago, others are working to energy company, and I was starting to work with VanNatta said. "I called my dad and said, 'Hey, we

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need to resurrect the vor- As the waste material tex unit.' Because it puts burns in full suspension plans to work with develoff so much heat. And the inside the vortex of fire, it opers to make the system next phase back then was becomes its own fuel, available to small municito tie it in to this energy allowing the external fuel palities, its target market. recovery process. He said, source to be shut off. The everybody's doing.

"Well, thank God I'm week later and said, 'We've got to do this thing.' He said OK, gave me Bob Hasselbring's

number."

Hasselbring was the inventor of the technology, at General Electric. VanNatta's father was Ralph VanNatta, Shelbyville's mayor at the time of Hasselbring's creation.

"They started putting some things together. Dad went out and applied for a federal demonstration grant, received the money, and they worked closely with GE, built a facility. It was fully tested and approved by the EPA at that time," VanNatta said.

"At that time, it was just decided inside the corporation to put it all on hold because they didn't think it was necessary at that time. That many years ago, landfills were everywhere. And now we have a severe problem."

The Thermal Vortex System is essentially a tornado of fire, burning anywhere from 1,800 to 2,200 degrees and spinning at 90 mph. Waste material is shredded, forced into the chamber and burned by the intense plans to work with devel-

and perfect combustion.

Natta said.

ing energy.

"In fact, one of the ties." things we can do with this they shred it, they chemi- Guam. cally neutralize it, and While the company thing like that.

"With ours, we dig it nal combustible material. after that can be separated out, then clean fresh fill is put in. ... We could writer for The Shelbyville effectively eliminate the News. Follow him on Twitneed for landfills."

VanNatta Worldwide

VanNatta Worldwide

"We won't actually be 'No, no, stick with the waste material is mixed selling directly to the CNG and the wind and with controlled amounts municipalities," VanNatta the solar, that's what of air to achieve complete said. "Obviously very tough economic times for "Because we don't let many, many years. Most stubborn, I called back a the waste material sit and small communities don't smolder, we don't produce have the kind of money it harmful emissions like the would take to be able to smoke and fly ash," Van- solve something like this, so we're working through A clean method of dis- the private sector. We posing of waste and a work with what's called clean method of produc- developers or owneroperators of the facili-

> Among the communiis that we can do what's ties in the pipeline: the called landfill reclama- town of Caliente, Nev., tion," he said. "Currently, and a coal mine in central when they do landfill rec- Illinois. VanNatta said lamation, they go in and the company also has they dig up the materials, orders from Poland and

> they pretty much just won't employ a huge num-rebury it. And all that ber of people in Sheldoes is kind of reduce the byville, because the prosize. Once you do that, cess doesn't require a lot you still can't build any of employees, VanNatta infrastructure on it, you wanted the company can only do a golf course based here because of its or a playground or some- influence on the vortex technology's origins.

> "This is where the up, we shred it, we don't mindset was, this is where need to chemically neu- the knowledge base was," tralize it, we'll burn it, he said. "Probably the and we'll actually destroy most important thing it 99.98 percent of the origi- does for Shelbyville is bring the recognition, a Everything that's left over way to tout what originated here."

Andy Proffet is a staff ter (a, Andy Proffet TSN.