Sportsometry looks at all angles

Town native's organization examines ties between sports, math/physics skills

By Keach Hagey Staff Writer

Sometimes it takes a blind spot

emy and later at Yale University Winokur, 31, dominated the tant question ago revealed she had a hole in her vision. When an eye test three years without noticing problems with her squash courts at Greenwich Acadasked herself a simple but imporperipheral vision on one side, she Greenwich native Annick

the ball?" "How did I know where to hi

compensating all those years with cognitive process might be a use-ful teaching tool. directing her where to place her racket. She also realized the same he speed and angle of the ball and cometry and physics, calculating She realized her brain had beer

to investigate how participation in organization she founded in 2003 came Sportsometry, a nonprofit three dimensions sports can improve students' abilito calculate motion and think in From these dual epiphanies

who played would do better in half played and half didn't, those geometry and physics, I hat if you took a group of kids, and "Since squash is pretty much figured

carning her bachelor's degree in cognitive science from Vanderbilt sional structures over three groups—those who played squash graders and split them into two Greenwich Academy seventhtook a group of approximately 50 theory. In January 2003, Winokui ability to visualize three-dimenured the relative progress in their and those who didn't — and measment at her alma mater to test her Jniversity, she designed an exper-Using skills she learned while

months.
"Those who played did better,"

Schmidt-Fellner, coach of the she said. gram, who said she now thinks of school's champion squash pro-The results didn't surprise Karen

goes out, but we never talked about angle that the ball goes in (to the wall) is the same angle that the ball things in a new light.
"We always talk about how the

it in terms of degrees," she said dent, tormed a board of directors to Winokur, now a New Haven resi-Encouraged by her results,

> a gym teacher and a math teacher talk-"My ultimate dream would be to have ing to each other about lesson plans."

Annick Winokur

founder, Sportsometry

help guide her fledgling organiza-tion, which seeks to integrate the sports-based teaching methods schools and after-school programs into the math curricula of public

a 29-year-old high school physics motion concepts such as energy and riculum typically includes physical enth- and eighth-grade science curuntil high school, he said the sevphysics concepts are not taught the program. teacher in Woodbridge, helpec Winokur develop lesson plans for Board member Craig Hirokawa Although most

active and gets kids interested, up and interacting," Hirokawa said. In January, Winokur learned up style, is not a new idea, it's nice to other means of teaching, in addi-tion to the traditional chalkboard actually use sports ... "Although the idea of using because it's

and Athletics in Partnership (LEAP), an after-school program in New Haven, to teach math and with the Leadership, Education school students, ages 11 and 12 geometry skills to six middle This time she decided to forgo Athletics in Partnership

what a 90-degree angle was, and they would say 'no,' " she said. squash for basketball.
"I would ask them if they knew that look like to you?" oounce pass and ask, oall and tell them to throw me a they would say 'no, Then I would give them a basket-What does

the ground at the same angle at which it hits the ground. If students stand the correct distance apart, it will be a right angle When a ball bounces, it leaves

Classes the students improved in their math afternoon a week for four months Working with Winokur one

Winokur, who acts as president, Cwa B-pius, was surprised by the degree of One girl said size went from a said Winnkuz, who

executive director and lone

be further refining her methods of employee of the organization, will

> both teaching and measuring stu-dents' progress this month when she brings Sportsometry to nearly 200 children as part of the New Haven Public Schools' monthlong

summer program.

Jean Mauro, a 69-year-old ing her trademark. nature of her idea, which he is helpwas attracted to the innovative patent attorney who lives in New Haven, joined the board because he

> "It struck me as a very creative sort of thing," he said. "I could see the applicability ... since kids tend they understand math to understand sports better than

of schools Mauro said it might turn into a busi-ness one day, while Winokur hopes emphasized that the organization is to see it become part of the culture both foresee big possibilities for still in the data-gathering stage, but the Sportsometry idea in the future Winokur and Mauro both

then say, 'Then these are the drills I'm going to use.'" week, and the gym teacher would to teach about parallelograms this teacher would say, 'OK, I'm going have a gym teacher and a math teacher talking to each other about lesson plans," she said. "The math "My ultimate dream would be to



Annick Winokur speaks to a reporter at Greenwich Time recently about the new nonprofit organization she's founded that investigates how participation in sports can improve a student's math and physics ability. Mel Greer/Staff phot