Science Students Gain Authentic Research Experience

in the school's lecture hall. Science Symposium on March 1 Research Program under the dents from the Applied Science aBanca held the 1st Annua By SUSAN CONEY
Newtown High School stuteacher Frank

an experimental research topic work industry. with local universities and the through contacts established and most also received guiddirection of a teacher/menton Students worked under the and carrying out experiments were responsible for selecting esearch As part of the requirements from field in the independent program, mentors students

he year. hroughout the remainder of they will continue researching about their scientific findings, students presented demic year and although the place over the course of the aca-Projects are designed to take which they have an interest to explore areas in science in students with the opportunity esearch program that provides Program is an The Applied Science Research perfecting their findings independent research

state, or national symposium or are required to present their results at a local, regional n the field. All of the students period to conduct experiments outside of the assigned class Students often spend

students presenting at the sym. about the program. posium and talked Mr LaBanca introduced the briefly

chance to explore real problems ence experience. It provides a that we don't know the answers est, in an authentic, real scidents to pursue a topic of inter-"This program allows stu

presentations. Those attending ed data from their experiments students explained and providsurrounding classrooms. The sessions in the lecture hall and symposium. Oral presentations ed their experiments at the to," Mr LaBanca said.
Twenty-two students presentroom and listen to a variety of the symposium where invited were conducted in concurrent move about from room to help of PowerPoint



ducting experiments to test the effects of water temperature on Gabrielle Nastri displays the wind wave tank she built to use in conwind speed and storm surge formation.

research projects. After those attending the program. answered questions posed by presented each

research topics were selected of Deep Brook. A wide variety of as well as the oil contamination study of sleep phases, robotics, and the West Nile Virus, to the by the students. study of equine Research ranged from the populations

to pursue a similar held later in get a better understanding of opportunity to see people who ing, "I love being able to work spills on a Class 1 trout researched the effects of oil what they do and if I would like work in those protessions and area of interest to me. I get the and apply what I've already learned in high school to an independently and hands-on mented about the course, say-Burgedi stream's ecosystem Laura comaura Konkos, a junior partic-5 the course

get to pick our own proj-

she continued help us verify our direction, procedures. We get mentors to ects and come up with our own

of the water and soil. stream, to analyze the quality one upstream and two downinto the stream. released large amounts of or 2003 and December 2004 that contaminated by two oil spills quality of Deep Brook, a stream three sites along the stream, Laura researched the water occurred in She studied December

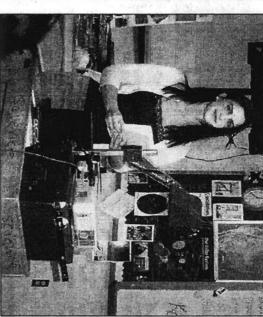
speed attending Tulane University in water selected to study the effects of Gabrielle told the audience she very interested in: meteorology pendently study a topic she is ence Research course to indemore, joined the Applied Sciher brother when he tion after a hurricane displaced Gabrielle Nastri, a sophoand storm surge formatemperature on

New Orleans, Gabrielle met with Western

Connecticut State University

environment,

being numerous



the Deep Brook oil spills. before answering a question about her research project on Science student Laura Konkos pauses for just a moment Bee Photos, Coney

and storm surge formation. plades to simulate wind speed trie drill that was used to create tainer, fan paddles, and an elecas a large, plastic garbage conwave tank using materials such nurricane. She built a wind more about the formations of a Professor James Boyle to learn power to move the

tion she thanked her father for ssisting her in building the At the close of her presentawave tank.

surge protector so I wouldn't get hurt mixing electricity and vater in the experiment," she "My dad insisted on adding a

chose to can be detected in supermarket genetically modified products his past summer. piotech company in Hong Kong began when working at research class to further her oined the applied science oy-based kills with DNA, which she first Samantha Wong, research loods. a junior, Samantha whether

exceptional tation that Drew stated during his presenly known as small minnows. undulus heteroclitus, commonthe Long Island Sound using ed research comparing sites in Drew Taylor, a junior, conduct. indicators of the the minnows

next

enough in population to allow both nutrition and toxins. or collecting some for testing also high enough on the chain to bio-accumulate

weight, reflecting the quality of both the liver condition as well he living environment Drew tested the minnows on overall

interests in ecology and research class to further ong Island Sound. Drew took the applied science

past two years. Previously Science Research course, is the first year for the Applied senior project program for with him informally and in aBanca ran a similar program LaBanca stated that this some students

fairs and symposiums over the go to the state and regiona students to present before they is an excellent opportunity for present their real results. This magine a better setting than dents the opportunity to share authentic research, I couldn't heir work with the community n Stamford for live years. The symposium gave my stufew months," Mr LaBance they are conducting

received lence in educational blogging Recently an award for excel-LaBanca

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vide recognition of exceptional spread emergence of blogs the educational field and p designed to honor the wide The Education Blog Awards are Science Research course. blog for students for his Applied the best classroom instruction LaBanca received an award for work of individual bloggers. Mr pro-

ca asks students in his class to open-ended respond to thought-provoking not happen in a vacuum, but in students are invited and often and insights online to which tions. He offers assignments hows them that science does mprove their writing skills and equired to respond. This offers tudents a venue that helps to Through the blog, Mr LaBanconceptual ques

