future of duplexes

Bus drives N.C. schools to succeed in science Forum discusses

BY LINDA SHEN

North Carolina schools have a date with Destiny. At 26,000 pounds, 40 feet and

costing about \$430,000, the Destiny bus is anything but an ordinary night out on the town The bus, a state-of-the-art outfit-ted BlueBird chassis, lets students

do on wheels what most high school science teachers only dream about.

The technology on board includes a gel electrophoresis apparatus that can separate pro-tein, thermocyclers and spectrophotometers for high-tech biomolecular lab experiments, not to mention bidirectional satellite Internet and IBM ThinkPads.

Masterminding the bus and its vision is Walter "Skip" Bollenbacher, a UNC professor of biology. Inspired but unsatisfied by Boston's CityLab program, which also uses a bus for science educa-tion, he brooded over a poster of an enormous bus for more than a vec enormous bus for more than a year before the answer came to him.

In April 2000, built on a fiveear, \$1.6 million grant from Glaxo Wellcome, the Destiny was launched. "The Best Thing in Science Education to Hit the Road" was emblazoned on the side, and Bollenbacher still plans for it

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to live up to its initial promise. Beyond providing a wet lab for under-served schools, Destiny seeks to give teachers resources tai-lored to their students and due lored to their students and class-

Bollenbacher said programs taking teachers out of the equation were not the answer, nor were summer workshops in which teachers were instructed on experiments and science they lacked resources to teach.

"We talk about this science education crisis, and everyone tries to legislate it. That's not looking at the problem at all," Bollenbacher said.

To that end, teachers in the Destiny program have been given variable grants for equipment, and some receive a kit for dry labs in their own classrooms. "Success comes from building sustained relationships," Bollenbacher said.

He said the program isn't meant to patch a struggling science curriculum but acts as a catalyst to introduce new science education technology. Destiny seeks to make each school self-sufficient and works aggressively to bring advanced capabilities into classrooms. "The goal is to make myself superfluous," Bollenbocher said. Three years later, the reviews are

At West Bladen High School in Bladenboro, Pam Roberts has integrated the Destiny curriculum into her classroom. "Each and every one of (my students) comes off (the bus) wanting to be a forensic scientist," she said with a laugh.

Before the Destiny program, Roberts' students were being bussed to UNC-Pembroke for labs. Students missed a day of class and Roberts' up to three subjects, including material on end-of-course examinations

The Destiny bus has helped to maintain the level of excitement about science with two visits each semester to schools in the pro-gram. Roberts said the bus serves about 400 of her students."The bus has become a powerful visual metaphor for what science educa-tion should be," Bollenbacher said.

But the road to success wasn't entirely smooth. At first, the Destiny program was met with apprehen-sion from public schools. Grants to teachers were restricted severely, and the bus was viewed as disruptive to curriculum goals.

The tides have turned. Booked as far as two years in advance, the Destiny bus has become a popular commodity in science education.

The Destiny program seeks to address science literacy and reverse positive and the outlook is good. (C)2003 Tribune Media Services, Inc All rights reserved THE Daily Crossword By Stanley B. Whitter ACROSS 1 Tarries 6 Beatty film 10 Discomfort 14 Accustom 15 Verve 16 Praise 17 Loose rock debris 18 Supernatural power 19 Bullets and such 20 1992 tennis film? 23 Remains 24 Terminate Bonheur 59 Land of Port-au-Prince 60 Kudrow of "Friends" 61 Large inland sea 62 State 63 Speedu 13 Old name for Tokyo 39 Baden-Powell's org 13 Old name tor Tokyo 21 Fernented 22 Worshippers 26 ____and terminer 27 Funny Foxx 29 Epee wielder 30 ER neighbor 31 City SW of Roanoke 33 Enzyme ending 34 Distress letters 51 Letters for motor 44 Ore products 45 Boundaries 46 Narrow ridges 47 "Raging Bull" Oscar winner 63 Speedy 64 Bengal and Biscay 65 Painter's base 49 Gold measure 50 Lamb paper 51 Ray 53 Fiddler or hermit DOWN 53 Fiddler or hermit 54 Israeli dance 55 Drink in one gulp 56 Sprite 57 Farrow of "The Purple Rose of Cairo". 35 Letters for moto Cafe Foot parts homes 36 Pierce Terminate Grief Coercion Build 37 Sky bear 38 Close call Crystal-gazer Jog one's memory African antelope Mild expletive CIA forerunner 29 Family member 30 Going-public letters 32 Potash Group of GIs 9 Catch 10 Texas shrine 11 Showy rosel 12 Buzz

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Students work in the wet lab facilities provided by the Walter Bollenbacher's Destiny bus, a project by the UNC professor.

promoting the "ecotransformation" of learning environments,

grinning. "I want a language bus." Though he is optimistic, Bollenbacher and his vision still



COURTESY OF BETTY BROWN

near campus who said the prolifer-ation of homes built for a student market eroded neighborhood charcter and prevented families from settling into the area

"Economics are driving the con-struction of a different kind of duplex than we've seen in Chapel Hill," said Roger Waldon, the town's planning director. "It will damage the common fabric if the

BY NICK EBERLEIN

of the divisive structures

With a one-year-old ban on

duplexes set to expire in February, local officials, developers, residents

and students have been called upon to help determine the future

The Chapel Hill-Carrboro Chamber of Commerce sponsored

a discussion forum Thursday to

allow groups to weigh in on what

purpose the buildings might serve in the town next year.

The moratorium was enacted in response to concerns of residents

ASSISTANT CITY EDITOR

Some developers' practice of fitting as many students into a duplex as possible, Waldon said, has led to glut of curbside parking, creased noise and neighborhood a

deterioration, among other things. Northside neighborhood resi dents have opposed staunchly duplex construction and are lobbying for the area to become the town's first conservation district. Conservation status would enable the residents to place restrictive covenants on the size and scope of developments in their area "Responsibility lies on the devel-

opers to care about where people are moving and what happens to the communities," said Delores Bailey, chairwoman of Northside's

conservation committee.

But developers argue that the restrictions unduly limit the availability of housing to nontransient portions of the local population. Scott Kovens, president of Capkov Ventures, said the restrictions have inhibited the full construction of his Franklin Grove development.

Franklin Grove, located next to the intersection of Elliot Road and East Franklin Street, is an upscale development of family townhomes.

"We could have put all 48 of our units into five buildings," Kovens said. "But we decided it was best to break it up some more. These buildings are not what people mean when they say duplex." The town defines duplexes as two

dwelling units on one lot that are joined by a common wall, regard-

less of size, appearance or use. Linda Convisor, University coordinator of local relations, acknowledged that some duplexes serve a slanted purpose but said other regulations could ensure the student market doesn't compromise neighborhood integrity. "It's bizarre to say they're not good innately ...

it's the management of them." Virginia Knapp, director of external affairs at the chamber, said she understands residents' concerns but thinks that the restricons actually undermine the availability of affordable housing that

duplex opponents seek to protect. "People want to move here for the (public) schools but feel that houses are too expensive. Duplexes are a way to go from apartment living to eventual home ownership one day.

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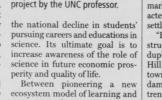
trend continues unabated."

Bollenbacher has big plans. "I want a fleet of buses," he said, face problems.

Lack of recognition of the extent of the science education crisis and the difficulty in changing the way people view education still loom. Yet Bollenbacher was gleeful as

he declared, "Destiny is with child." With funding from NASA, another science bus, Discovery, is due next May.

Contact the Features Editor



itware, 11 and Math industry talk about their jobs and the industry as a whole. Business casual attire recommended. Business casual attire recommended. Wed. Oct. 15 4:00p 239B Hanes

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Accenture (10/13) 7-9p 239 Microsoft Corp. (10/13) 6-7p 307 E&J Gallo Winery (10/14) 6-7p 239 The Vanguard Group (10/14) 6-7p 307 Jefferson Pilot Financial (10/14) 6:30-7:30p 308 Hewitt Ass. (10/20) 6-7p 307 The Fund for Public Interest Research (10/14) 6-7p 08 Gardner Hall Standard and Poor's (10/16) 5-6p 307 Wachovia (10/16) 6-7:30 Carolina Inn Black and Decker (10/20) 6-7p 239B (All meetings are in Hanes unless stated otherwise)

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