

# New College Breaks Rules, Expects To Break Records

ARTESIA, N. M., (UPI) — An experiment in education began early this month in New Mexico.

Nearly 350 carefully selected freshmen registered for the College of Artesia, a new four-year liberal arts school that believes rules are made to be broken — if a better way can be found.

The basic philosophy, as explained by Thomas Stevens, president, is simply that results are more important than following time-honored, but often hide-bound rules.

Instead of the standard semester plan, the school will have trimesters starting in October, February and June, making it possible for a student to graduate in two years and two trimesters. Other schools have found this system workable.

Lower classmen won't be

graded along standard lines of A, B, C, D, and F. Instead, they will be divided three ways—honors, passing, and failing.

Class structures will be flexible, based on the need of the student rather than the whim of the administration. Stevens believes unequal classes shouldn't be given "equal time." Therefore, important classes in a student's major may be longer than the standard 50 minutes. Others will be shorter.

In addition, a full schedule might call for classes on Monday, Tuesday, Thursday and Friday, with a mid-week break Wednesday for individual tutoring, lecture, discussions or study hall.

Team teaching will be employed, with both a senior and junior professor sharing the tasks. Due to the unique class scheduling, departments will be kept closely informed of each other's activities unlike many universities in which each department acts independently.

The college plant itself is a \$1 million complex located on a 300-acre campus. Additional construction is planned.

Finding the right students to form the charter class of the college was not left to chance.

Stevens met with many prospective students and their parents during a series of meetings held throughout the country.

Although the basic entrance requirement was a C average, even this wasn't strictly adhered to. What Stevens was really seeking was students with motivation — a voracious appetite for learning.

In the final analysis, the students will prove whether the concept of the college is a success or failure.

Stevens gave up a job as dean of Culver Stockton College at Compton, Mo., to head the new school. He is betting it will be a success.

### LIGHTER WATER

COOSA PINES, Ala. (UPI) — Water used in papermaking here loses weight — up to 60 tons a day — before it is returned to the nearby Coosa River.

That's the amount of solid materials removed by a new \$2.5-million pollution control system at Kimberly-Clark's newsprint mill. The system, which can treat up to 50 million gallons of water daily, removes enough sludge in that time to fill 20 dump trucks.



Two students lounge in Graham Memorial  
DTH Photo by Jock Lauterer

# Recent Invention Means Electric Cars May Return

DETROIT (UPI) — Revelation by Ford Motor Company of details of its new battery power source raises the possibility of a comeback for the electric automobile.

But for the foreseeable future, at least, it won't take the place of the conventional family car in this country.

It could in Europe and other parts of the world, however, and that's the reason European carmakers have been so interested in finding out what Ford has got.

The new battery source of electric power is aimed primarily at the small car with limited range and speeds at or below 60 miles an hour. It's not sufficient to move a two-ton vehicle on cross-country trips over superhighways at superhighway speeds.

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Europe specializes in small cars. So does Japan. And it's these types of cars that the Ford battery could compete with.

Briefly, the battery consists of three things. Sodium, sulphur, and a solid electrolyte of ceramic, made primarily of a-

minium oxide. It's this ceramic that's the key to the whole operation.

Sodium and sulphur are well known, common materials but nobody ever knew how to use them together to get a flow of electrical energy from their interaction. This is what the ceramic does. It provides a barrier between the sodium and sulphur, but allows sodium ions to filter through, reach the sulphur and combine to make a sulphide. In combining, it generates an electric charge which can be tapped to provide useful energy.

### ANOTHER SECRET

Another secret, however, is that the battery must be hot — very hot. Both the sodium and the sulphur have to be in a liquid state.

That means they have to be maintained at a high enough temperature to melt, and it means operating the battery at roughly between 500 and 600 degrees Fahrenheit, Ford officials consider that no problem.

First, when the battery is discharging while being used, or while it is being recharged from an outside electrical source, heat is generated which keeps the battery at its proper temperature.

Suppose you leave your car idle with the battery not in use.

Ford scientists say the battery can be insulated so efficiently it could stand idle for up to 14 days at a time and still be at the required temperature to operate.

Will it be used in conventional type automobiles, mere being substituted for the conventional internal combustion engine?

Ford now is designing and building a new car in England expressly for battery driving. It has also developed a new lightweight powerful electric motor to be used with it. And it is building more efficient controls. Several cars will be built, some tested in London and at least one will be tested in traffic patterns in the Detroit area.

When the battery is built, it will weigh about 500 or so pounds, which isn't much different than present-day gas engines in cars. Right now, all Ford has are tiny batteries, about the size of a test tube. But they're already planning to build a 22-pound battery which will have an output of about 2 kilowatt hours.

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# Cow Jumped Over Moon In Northern 'Cow Colleges'

BOSTON (UPI) — If New England's state universities once were cow colleges — the cow has jumped over the moon.

"The most under-rated universities in the nation" is the way H. Austin Peck, Maine's Amherst, Mass., Kingston, R. Durham, N.H. and Burlington, Vt.

Why does an area that boasts such private institutions as Harvard and Yale need expanded public education?

"The doors of the great mid-western public schools are closing to out-of-staters and the cost of private education is becoming astronomical," is one answer from President John McConnell of the University of New Hampshire.

"The nation's population is growing and the public's desire for college education is growing even faster."

Furthermore, he said, in New England the private schools such as Dartmouth do not intend to expand to meet the need. "So the public universities are stepping forward to provide the education."

top half of the high school classes — with Vermont striving to pick the top two-fifths. One advantage to the students who stay close to home is they can live at home and ease the strain on the family pocket-book.

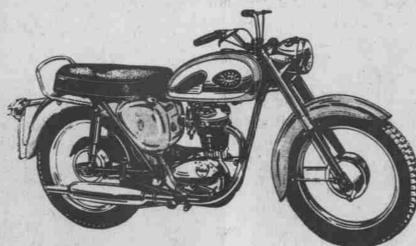
The Ivy League tradition calls for students to live in vine-covered dormitories that date back a century or more. But at the University of Massachusetts some students live in a 21-story skyscraper. And "conservative New England" not, the University of Connecticut has a coed dorm ("not the paradise you may think," sniffed one coed. "It's two separate wings with a common dining area between.")

Traditional Yankee frugality has lessened in recent years amid a massive building campaign that has seen \$359 million spent on New England students in 20 years for new dormitories, classrooms and laboratories.

Still, the pay-for-what-you-get attitude remains in some places. For instance state university students in New England still pay as much as \$400 higher in fees than midwestern or western students at public institutions. But, Dr. McConnell notes, if these same young people went to Harvard or Dartmouth or Yale or one of the other "Ivy League" school bills would be as much as double at the end of the year.

There's not much of the "cow" left in New England's state universities although they may have started that way. The "cow college" term goes back to the Morrill Land Grant Act of the 1860's which was basically designed to improve agriculture through education. Its sponsors might be surprised by much that has happened since as, for example, the state of New Hampshire spending \$2.5 million for a center teaching music, art and drama.

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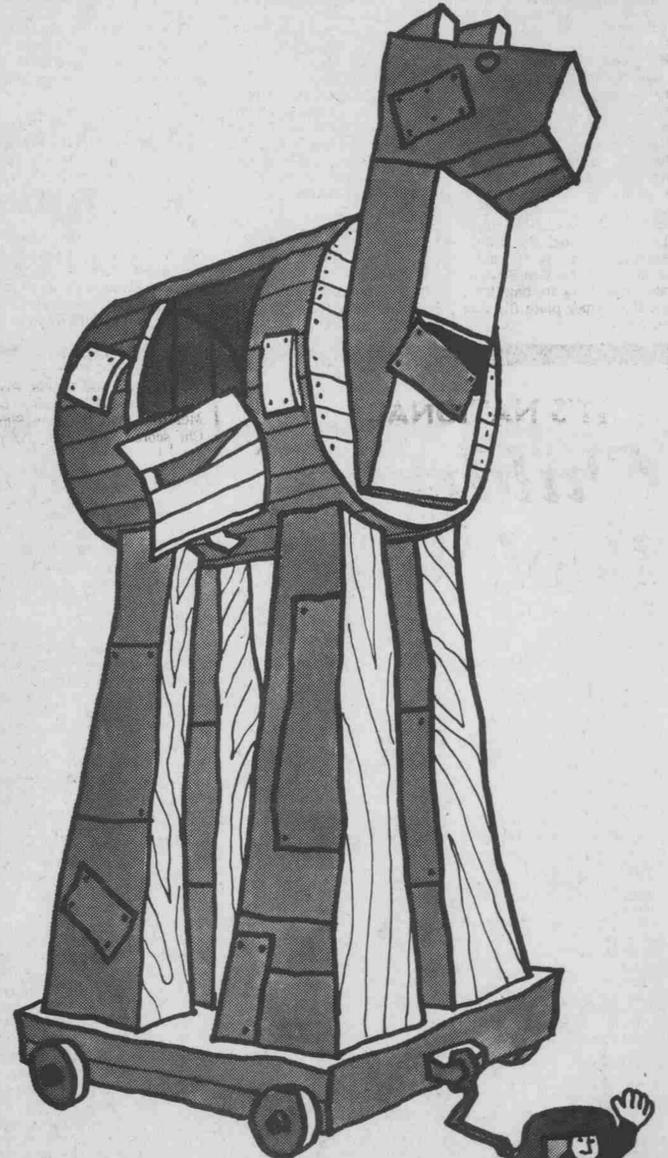
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