evere anemia may now be treated

Past A&M research pays off

now show promise as a nent for Cooley's anemia, a litary blood disorder that ts 5 percent of all Americans trace family roots to the rranean as well as about 2 on Greeks and Italians.

orm invariably leads to death re age 21 because the bodies ing victims are unable to rm iron into hemoglobin, igment that makes blood red ries oxygen from the lungs

he two compounds, known in tific shorthand as EHPG and D, provide encouraging re-because they act as effective

Two man-made amino acids studied nearly a generation by Texas A&M University sci
Texas A&M researcher Dr. Texas A&M researcher Dr. Arthur E. Martell, who holds the rank of distinguished professor of chemistry.

Chemists here have begun more studies under a three-year contract from the National Institutes of Health to study ways to make improved iron chelators that may even be superior to HBED

Martell has been asked to present his findings at the American Chemical Society's international meeting in NVEW York on Aug.

Although the most recent modifications of HBED and EHPG were done by Dr. Colin Pitt of the Triangle Research Park in North Carolina, the first synthesis and thalassemia makes the person a discovery of the compound's effectiveness as iron chelators were carried out at Texas A&M during the 1950s and 1960s by Martell and other scientists conducting basic research.

Martell said recent developments surrounding the two synthetic amino acids are examples of the need for pure research that may not result in immediate appli-

'These compounds wouldn't have been looked at for Cooley's anemia if we hadn't realized from our early work they were very good for 'complexing' iron," he

Cooley's anemia, Martell explains, takes two forms. The severe form (thalassemia major) leaves rust-like deposits of iron which build up to impair the heart, liver, spleen and other vital

carrier although he or she appears perfectly normal otherwise

If two carriers have offspring, they may produce normal chil-dren, other children with the disorder, or children that also become carriers, said the Texas

Only a complex blood test can confirm the condition and the only effective treatments are blood transfusions and a drug called desferrioxamine (DFB) which helps the body eliminate excess iron.

Both new drugs are potentially far superior to DFB and are undergoing tests as replacements for desferrioxamine in treatment for Cooley's anemia, Martell said.

Researchers here have completed one three-year contract with NIH to study new chelating agents. That work was done under heart, liver, spleen and other vital the leadership of post-doctoral retissues. The less severe form of searcher Dr. R.J. Motekaitis.

A&M professor says lie detectors aren't reliable

Many people can lie and not be detected by a polygraph test, and for that reason the tests shouldn't be used alone in job interviews, says a Texas A&M

management professor. "Giving lie detector tests for employment is on par with trying to measure intelligence based on body builds," said Dr. Doug Stone of the College of Business Administration. "Not all tall and thin people are intel-

This year more than a million Americans will take a lie detector test. While the tests are used at police stations and in court cases, the greatest number will be given in the work-

place, or during job interviews. Stone said none of the Fortune 500 corporations for which he has worked or consulted use such tests while interviewing prospective employees. More often smaller firms, particularly retail businesses, tend to use them. The tests are often used to question employees in connection with inventories, cash flow or other issues involving a

The American Management Association estimates that as many as 20 percent of the firms that go out of business do so because of employee crime.

The tests don't detect lies or liars," said Stone, "but they detect excitability

Psychologists say the tests are unreliable because they confuse emotions such as fear and anger or health conditions with guilt.

Each of us differs considerably as to whether the test will say we're being honest," Stone said. "Some innocent people are judged to be deceptive while some deceptive people will pride themselves in their ability to get through a lie detector test undetected.

Stone explained the polygraph test only responds to emotional reactions to questions asked, measuring breathing, sweating responses and blood pressure. People don't have to take the test, he said, but refusing to do so could prevent them from being hired or promoted. Objecting to the test is often interpreted as admitting guilt.

Stone advises people who feel they must take such tests for furthering their careers to be honest when they answer the questions. People who want to beat the test often try to raise responses on control questions. They do so by biting their tongue, breathing slightly faster, rubbing a toe against a nail in a shoe and the like.

Stone also advises people to refuse to answer questions that are personal and may be a basis for illegal discrimination, such as questions pertaining to one's religion, political beliefs, sex, marriage, physical and mental handicaps or national origin.

Architects return o'40s style homes

eturning to the architectural ards of the pre-1940s would step forward in energy effisays a Texas A&M

the days when cool air came hange of the seasons rather with a flip of a switch, tects knew how to design ings that stayed relatively on their own, said R.D. Reed, essor of architecture and a er of the American Institute tects (AIA) national ener-

ommittee is developing a million program to ree the nation's architects. With the advent of air-tioning after World War II, hrust of training in architec-shifted from buildings that sensitive to the climate to ings that were indifferent to nate, he said.

he architect became more of ptor," Reed said. "From to 1975 architecture schools highout the country were hing their students to design ngs that were connected to a machines that ran on a lot of

hough cheap energy has on the way out since the 1973 nbargo, Reed said the majorthe nation's architects and ls of architecture still have turned to designs that minithe need for mechanical cli-

control. rches, breezeways and white or paint were devices used the ability to describe that may experience a revival cient buildings.

A return to that kind of architectural design would mean significant energy savings without a loss of comfort.

"We could easily cut our energy costs in half," Reed said. "But this doesn't mean we're returning to the bad old days. These next few years can become the best of times instead of the worst. The idea is that you can design with nature as opposed to overcoming nature with a machine

Reed believes political and economic pressures have not been strong enough to make energy conservation a top priority with today's architects.

"You would think because it is so expensive they would design more energy efficient buildings, but they don't," he said.

Reed said part of the reason is that energy costs can be passed on as rent and are tax-deductible as an operating cost. Beginning next month a series

of workshops will be offered to professional architects to prepare them to design more energy efficient buildings

Texas A&M is the first university to offer the same material to its students, Reed said.

"We will be offering our students the same educational material that is being offered to the practicing professional," he said. Our students will graduate with the ability to design energy effi-

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