# **State and Local**

## **E.L. Miller Lecture Series** Prof says embryo transplants commonplace

#### **By Sondra Pickard** Senior Staff Writer

In 1932, scientists at Texas A&M planted the embryo of a goat into reproductive tract of another, ich resulted in the birth of a althy kid. The experiment was the ond successful mammalian egg nsfer ever recorded, but since en, transferring mammalian emos has become commonplace at M and around the world.

Dr. Duane Kraemer, A&M prosor of veterinary physiology and armacology, said the first successl egg transfer was performed in 91 at Cambridge University with

In 1951, he said, the science was

first applied to cattle, which are now the most common animals used. It plantation embryos from the reprotook 20 years, however, before em-bryonic transfers could be applied commercially.

Kraemer spoke on Wednesday as part of the E. L. Miller Lecture Series titled "Genetic Engineering: Improving or Interfering?" The pro-gram was sponsored by the Memorial Student Center's Political Forum committee.

Kraemer has worked on various aspects of embryo transfers since 1959, and in 1971, he performed the embryo transfers that resulted in the first purebred calves to be produced by a commercial embryo transfer company.

Kraemer defined embryo trans- tility; and

plantation embryos from the reproductive tract of the genetic mother, or donor, to the reproductive tract of the surrogate mother, or recipi-

ent. When transferring embryos, he said, the objective is to increase the number of offspring from genetically valuable females.

Some of the benefits of transferring embryos Kraemer mentioned

• The production of improved livestock strains;

• The production of animal models for research;

• The treatment of human infer-

• The preservation of endangered species.

To begin the process, Kraemer said, eggs are fertilized by artificial insemination. The embryos are then transferred - each one to a different recipient.

Kraemer said the resulting offpring are not clones, but rather full brothers and sisters.

To successfully complete an embryo transfer, Kraemer said the reproductive cycles of both the donor and recipients must be synchronized, thereby maximizing the possibility of conception.

"Basically," Kraemer said, "you need a group of cows that are all in heat at the same time.

## Researcher stresses safety of genetic vaccines

#### **By Christi Daugherty** Staff Writer

The importance of preventing intious disease and the existence of leral regulations should lead to a eater acceptance of genetically en-eered vaccines, a Baylor College Medicine researcher said dnesday

Dr. Saul Kit, the head biochemist he Division of Biochemical Viroat the medical center in Housspoke on the safety of genetic neering as part of the E.L. ller Lecture Series.

The lecture series is being sponed by the Memorial Student Cen-'s Political Forum committee, and

ntinues all day today. Kit said that despite fears to the tries ntrary, the new genetic vaccines proving to be safer than convenally developed vaccines.

He explained that although many ople think of conventional vacnes as completely safe, the only utbreaks of the polio virus in recent ars were traced back to polio vaccitions. Sometimes a conventional cine becomes unstable and rerts to virulence, he said

He said several problems underscore the need for an increase in genetic engineering technology. These include the existence of viruses such as influenza and St. Louis Encephalitis, and the dramatic increase in the number of AIDS cases.

"AIDS is exploding into a world-

admitted that the Baylor College of Medicine hasn't yet been granted permission to experiment with AIDS of problems from the vaccination. and genetic engineering, although he said he expects it will be soon.

Meanwhile, infectious diseases remain the greatest problem for hu-

"People are going to make noble comparisons between genetic engineering and nuclear disasters. They'll say science is enticing but a potential exists for disaster." - Dr. Saul Kit of the Baylor College of Medicine.

wide epidemic," Kit said. "AIDS mans and animals, he said, especially cases have been reported in 74 coun-

"Through October of 1986, AIDS has struck over 26,000 adults and 300 children in the United States. Fifteen thousand of these have died, and the number is expected to double in the next 14 months.'

Even if a preventive vaccine al-ready existed, he said, the number of those afflicted with AIDS would reach more than 200,000 by 1990, and 100,000 of those would die

in Third World countries where the majority of the population is either not innoculated at all, or is innoculated improperly. Science has been relatively suc-

cessful in eradicating some viruses, most notably smallpox and polio, he said. But even the successes have often had a darker side.

"The last reported case of smallpox was in Somalia in 1977," Kit said. "But in some countries the smallpox vaccination actually be-

But a vaccine doesn't exist, and he came more dangerous than the dis-

He said many people died because

'Shortcomings such as these can be overcome by genetic engineering," Kit said.

Kit said the potential always exists for danger with conventional vaccines, while genetically engineered vaccines would not likely revert to virulence, and would not have that particular danger

"Genetically engineered vaccines are flagged so they can be traced,' he said. "If it turned on the host and became virulent, the cause could be traced back to the vaccine.

He said there is no similar way to trace conventional vaccines.

Most people fear genetic engineering simply because they do not understand it, he said.

"People are going to make noble comparisons between genetic engineering and nuclear disasters," he said. "They'll say science is enticing but a potential exists for disaster.

"My message is that we're thoughtful human beings, and we needn't be afraid of science and technology.

### Smoke 'Em Out

Laurence Alvarado gets some advice Wednesday from Karen Barnett, left, and Allison Hendrix on how to help a friend stop smoking. The Great American Smokeout takes place today.

## **Verification ends Friday** for senior ring deadline

Wednesday is the last day to order Lynn Scott said that ring orders will Aggie rings this semester, but students must submit their names for eligibility verification by Friday, a ring office spokesman said. Verification should be completed by Tuesday

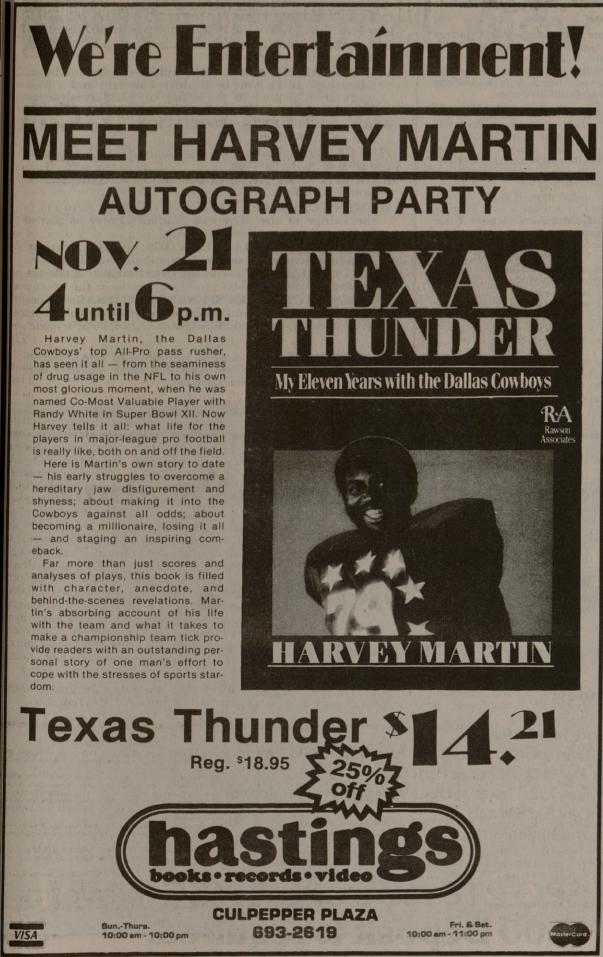
be taken again starting about Jan. 7. She said if students order their

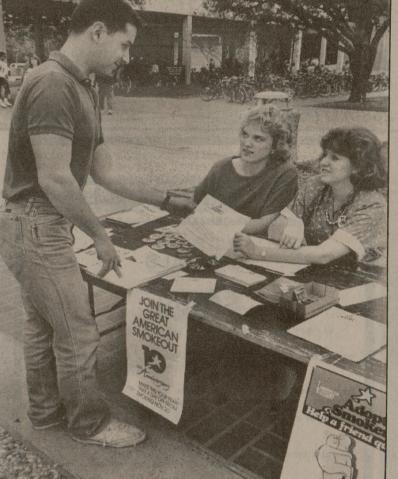
Photo by Greg Baile

rings by the end of January, they should still receive them before graduation.

Rings that are ordered by the Wednesday deadline should arrive However, assistant ring manager by the beginning of April, Scott said.







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