## NEWS BATTALION

## 25 om page 1A k on what infor

e outreach pr student gover goal for Print president. S sidence halls a tions in an effort g neo account round table te that," she sa Corps of Cad ber one read lies in unity ritical time

a critical xas A&M sity,

Zac Coventry BP candidate

Iniversity," h Asolution to this ever-present problem could tial for the st be genetically modified (GM) crops. ne together a Soil and crop scientists seek to find soluvoice ... abut tions for disease resistance, improved nutri-at we represe tional value and the ability of crops to sur-

ureau reported.

going." ggles with a: Pesticides and herbicides, which pose enviattributed to a ity advisin, such problems, but genetic modification of le said it is a le said it is a resent student hing freshma cture" of ho fall into the Cytogenetics, said researchers strive to min-

inize use of chemicals that are hazardous or re. toxic. Pesticides can affect higher organne plans to proisms, even humans. adviser evalu-Coventry's ide "Think from a world standpoint. Think of 360-degree about a farmer in India who has two acres of would includ land. He uses chemical pesticides, herbin from super cides and fertilizer, which he applies himost importantly self, not with a tractor. The exposure he sustains from this poses a great threat to his health," Stelly said.

essed comm jor problem in tween the stuand the studen a he plans to

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Coventry, du nanges in sto ar, including

presiden Bonfire.

lobby for course, a his

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y role in the

genetically modified crop. ernment was A strain of a bacterium, called Bacillus, that were we roduces a substance that serves as a natural values of t esticide when it is ingested by insects. This t the problem ubstance is not toxic to animals or humans. nts didn't ma

incorporate the genes from the bacterium, which are responsi-Scientists try to predict world population ble for producing the submbers and when Earth will reach its carstance, into the DNA of the ning capacity, which may be determined by plant. They hoped the ne vital thing - food. The world populaplant would use the on reached 6 billion in 1999. The number new genes to provill reach 7 billion in 2012, 8 billion by duce the same nat-2027 and 9 billion by 2047, the U.S. Census ural pesticide. After much trial Researchers at Texas A&M have been and error, the oncerned about increasing food production. experiment

By Mandi Vest

"Think from a world standpoint. Think

By modifying the genetic makeup of

plants, disease resistance is improved, thus

ncreasing crop yields. In Stelly's depart-

ment, researchers analyze Bt cotton, a

showed success. Now there is Bt cotton and Bt corn, which are resistant to vive in drought, flood or frost conditions. many types of insects. ronmental risks, have been used to alleviate This is just one

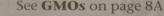
example of genetic modification Another useful genetic modification is Roundup Ready soybean, cotton and corn. These organisms are resistant to herbicide Roundup, a common chemical used in agricul-

ture. The herbicide, which is applied to fields as plants mature, is not selective to what plants it affects. Crops would be killed by Roundup if not for genetic modification.

Dr. Keerti Rathore, assistant professor in the Institute for Plant Genomics and Biotechnology, said Roundup Ready crops are very beneficial in agriculture. The amount of ground tillage is reduced and competing weeds are killed. In the United States, 60 to 70 percent of soybean

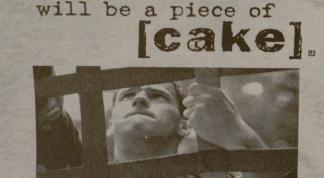
**DIANA SUAREZ • THE BATTALION** planted is Roundup Ready.

Rathore said presently there are two ways crops are genetically modified in the lab: through Agrobacterium incorporation or with a gene gun. Agrobacterium is a bacterium that inserts its own genes into the DNA of plants, so scientists use this bacterium as a gene-vector. First, the genes that will be





corporate ladder

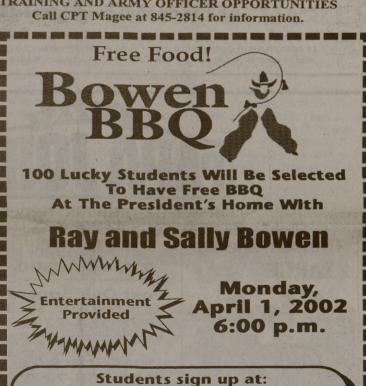


after this, the

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Sci Tech

Scientists found a way to

Thursday March 21, 2002

THE BATTALION

