Prayer debate continues

ate is edging closer to breaking a liberal filibuster against a school in considerable doubt

cubicle in 217 MSC.)

Courtéa

The Senate's second vote on cloture to halt the debate was scheduled Tuesday and Senate Republican leader Howard H.

A Senate source predicted 56 to 58 senators would vote to stop the filibuster Tuesday, and the third vote probably would top of the measure. prayer measure but its chances for passage by Congress remain fail, filed a petition for a third Baker Jr., anticipating it might vote today.

 $A\Lambda\Delta$ Alpha Lambda Delta (freshman honor society) will have a meeting **Thursday September 23** at 7 p.m. in room 302 Rudder. All members please attend. (If unable to attend please check by our

third vote probably would top of the measure the required 60. Weicker said

initial 41-47 vote 10 days earlier on an attempt to break another filibuster against an anti-abortion proposal. That filibuster succeeded in killing the antiabortion measure.

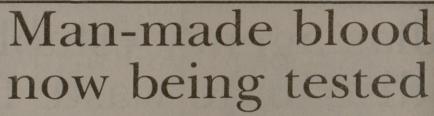
"If we get cloture (on the prayer amendment), we will press to conclusion," Baker said. He held out the possibility of night sessions or Saturday ses-sions to push the Senate business

Jr., R-Conn., and Max Baucus, ment operating.

Weicker said that even if clo-The initial vote Monday was ture is voted, he would continue 50-39: 10 short of the needed his delaying tactics because he amount of votes, but it was a considerably better first try than the attempt at "an end run" around the Constitution and would "limit Supreme Court jurisdic-

> The prayer measure, sponsored by Sen. Jesse Helms, R-N.C., would stop the Supreme Court from prohibiting voluntary prayer in public schools and

It is being considered as an amendment to the debt ceiling head. bill, which Congress must pass
But Sens. Lowell P. Weicker by Oct. 1 to keep the govern-



United Press International CHICAGO — A bioen-

gineer is testing miniature, artificial red blood cells he says could some day solve blood transfusion problems and might make it possible to convert animal blood for use

in human veins.
Irving Miller said the new cells can be used with any blood type, ending the need for cross-matching blood transfusions to prevent potentially deadly reactions. The new cells also can be stored indefinitely, he said.

Miller outlined his finding Monday during an American Medical Association conference for science writers.

The experimental cells were made from natural blood, which was broken blood, which was down in a kitchen blender. The artificial cells are only about one-10th the size of natural cells.

He said perfecting the artificial cells could avoid the risk of hepatitis from transfusions, a problem in many parts of the world, and make possible the temporary replacement of a patient's entire blood supply during surgery.
Ultimately it even may be

possible to turn oxygen carrying hemoglobin from the blood of slaughtered cattle into artificial cells for humans because all hemoglobin is the

Miller, associate vice chancellor for research at the University of Illinois, is working on the new blood cells with Dr.

Ultimately it even may be possible to turn oxygen carrying hemoglobin from the blood of slaughtered cattle into artificial cells for humans because all hemoglobin is the same, said Dr. Irving Miller, a researcher at the University of Illi-

Ljubomir Djordjevich at Chicago's Rush-Presbyterian-St. Luke's Medical Center. The research started seven years

Miller says test animals have recovered fully from having up to half their blood replaced by the artificial cells, although rats who received total transfusions of artificial cells eventually died of shock.

"Assuming we run into no major problems, we'll probably be ready for human trials

within the next decade," Mil-

ler said.
Miller said protein in natu ral blood cell walls can trigge tissue rejection in a transfu sion, much as donated organ may be rejected after they are

transplanted. He said his process should get around that problem by stripping away the naturalce walls, getting rid of the protein with its tissue rejection threat and ending the need for crossmatching.

The remaining hemoglo bin and most other norma cell contents then are wrapped with a new skin of lecithi and cholesterol, fatty subs ances like those in the origina skin. The process eliminate such bloodborne diseases a hepatitis, although that ha not yet been proven, he said. "We create a bag of hemog-

lobin, but it's not a living cell," Miller said.

Because the artificial cells are not living tissue, he said they can also be stored indefinitely. Blood banks must now discard blood that remains storage for more than 35 day

Miller said his tiny artific cells represent an improv ment over fluorocarbon blood substitutes, which have bee used in experiments but carr only one-sixth as much or ygen as normal blood.

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Defense experts urge shifting missile tactics

United Press International WASHINGTON — A group of defense experts concluded in a study released Tuesday the United States should shift its emphasis on strategic nuclear deterrence from land-based missiles to atom-powered sub-marines and bombers armed with cruise weapons.

The recommendations in the two-year study by the Aspen Institute for Humanistic Studies depart from the decades-old stress the United States has placed on maintaining a "triad" of strategic nuclear forces land-based missiles, submarines on land-based missiles because

and bombers — to thwart a of their vulnerability to an atta

The institute released its study as the Reagan administration plans to invest tens of billions of dollars in deploying the MX missile in a basing plan still under examination. The Pentagon favors densely packing 100 MXs in a field of superhardened capsules designed to survive a Soviet first strike.

The "dense pack" method is estimated to cost upwards of \$23

The experts recommended virtual abandonment of reliance

and investing more heavily "relatively invulnerable" s marines and bombers. I planes could launch cruise siles before encountering Son surface-to-air missile defens

"This triad approach strategic planning has be overtaken by technological ances and a new reality that several key weapons systems, lead has passed from Americato Soviet hands," the stu

The administration has pu sued deployment of MX tod what it perceives as the "wind of vulnerability" opened technological gains that on lead the Soviets to wipe out American missile field in a fi strike, thus eliminating the nuclear war more likely.

"Super-hardening silos to " crease their resistance to m blasts would not assure thes vivability of ICBMs against mis siles with the accuracies po dicted for the end of the cade," the group said.

A member of the group, I William Perry, the assistant fense secretary for research development in the Cart administration, told reporte "dangerous situation" has be created because the most de tructive nuclear weapons also the most vulnerable si

they are based on land. "Survivability depends mobility and deception," said, disagreeing with any baing method for the MX th would leave the missile und fended in its capsule.



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