EPA approves Tech cotton technology for use in Deepwater Horizon oil spill cleanup


SUDHEER JINKA (LEFT) and Vinit Kumar Singh, both graduate students working within The Institute SUDHEER JINKA (LEFT) and Vinit Kumar Singh, both graduate students working within The Institute
of Environmental and Human Health, produce nonwoven cotton in Seshadri Ramkumar's laboratory at the of Environ
institute.

By MERIDETH MURPHEY Staff Writer

Fibertect ${ }^{\mathrm{TM}}$, a nonwoven cotton-
carbon material, created by Seshadri Ramkumar, an associate professor of nonwoven materials for The Institute of Environmental and Human
Heath, has been approved by the Heath, has been approved by the
Environmental Protection Agency Environmental Protection Agency
as a sorbent for oil application in the cleanup of the Deepwater Horizon oil spill.
The EPA approval came after First Line Technologies, a Virginia-based company that commercializes Fiber-
tect $t^{\mathrm{TM}}$ sent a crew to Gand Isle, I. to test the absorption material on oil to test the absorption mate
that had washed ashore.
"It oil was viscous, and even semi-solid,"

Ramkumar said, "the Fibertect ${ }^{\text {TM }}$ was other volatile forms of the oil are able to absorb the oil." Not only is the oil spill contami-
nating the surface of the water, but recently the National Oceanic and Atmospheric Administration -
NOAA - has reported NOAA - has reported plumes below the surface releasing toxins.
Ramkumar said Fibertect ${ }^{\text {TM }}$ wil Ramkumar said Fibertect ${ }^{\mathrm{TMM}}$ will
prove to be more successful in cleanprove to be more successfur in cleanused, such as dispersants, because it is a non-toxic material that eliminates harmful vapors released by the oil.
"Recently there have "Recently, there have been some reports, which have been endorsed by
NOAA", Ramkumar said "thate NOAA," Ramkumar said, "that even
at a depth of 400 meters below the at a depth of 400 meters below the
surface of sea there are some plumes, the oil is seen as a plume from which the oil is seen as a plume from which
volatile gases such as benzene and
other volatile forms of the oil are
emanating, and these volatile gases emanating, and these volatile gases
are known to have carcinogenic effects, and they are also known to give some catastrophic damage to the marine life, so this is one important finding." He said these plumes are reducing
oxygen levels by up to $40 \%$ and that oxygen levels by up to $40 \%$ and that
Fibertect ${ }^{\text {TM }}$ not only absorbs oil, but Fibertect ${ }^{\text {TM }}$ not only absorbs oil, but
also combats the oxygen depletion. Originally, Ramkumar did not develop Fibertect $t^{\text {TM }}$ for oil absorption but said although this oil spill is a tragedy, it was a perfect fit for his
research and the advancement of the research and $t$
technology.
technology.
"My original application was My original application was
to develop a wipe, cleaning material for soldiers and fighter planes,"
Ramkumar said, "just dealing with


FIBERTECTTM, A NONWOVEN cotton product initially designed at Texas Tech for the cleaning of toxic chemicals, absorbs semi-solid oil during its inital evaluation in Grand Isle, La. The Environmental Protection Agency has approved the product for use in the cleanup of the Deepwater Horizon spill.
toxic vapors."
The use of Fibertect ${ }^{\text {TM }}$ to clean the hich will led to the EPA approval. of new Fibertead to the development gloves, face masks that block toxins carpet, industrial and household cleaning materials and more. Amber Dean, associate manag
ing director of licensing and busiing director of licensing and business development of technology
commercialization for Tech, said he EPA approval of Fibertect ${ }^{\text {TM }}$ is bringing notoriety to the university and Ramkumar. "There has been a lot of interest," Dean said, "Texas Tech has been in
he news quite a bit because of it" She said it is also bringing fund ing for the university.
"In addition to a portion coming
back to Tech," Dean said, "a portion sue that's a good thing," Reno said, is going to the researcher. There's "but when it's something of this colle portion going to Ramkumar's magnitude, obviously it's going to college and Ramkumar's department bring additional attention to Tech for additional research. So, it's very and to the university. nology and for th license a tech-. He said Ramkumar and his generated from the sales of that invention will help bring Tech echnology" -
Fibertect ${ }^{\text {TTM }}$ has licensing agreeFibertect ${ }^{\text {tr }}$ has licensing agree--
ments with First Line Technologies as well as Hobbs Bonded Fibers in
$\qquad$ Tevelopmeno, director of business development at the Reese Technology Center and Tech alumnus, said
this approval will help bring Tech to this approval will help bring Tech to
a new level of recognition. "When Tech can get out in front and be the spokespeople and be the
problem solvers for any kind of is-

## Mortgage rates continue to sink, reach lowest on record



## Tech adds to award-winning public art collection



School of Music presents weekly Small fraction of Americans meet salt guidelines

By TRISTIN WALKER Staff Writer

Every Sunday this summer, the
Lubbock com. munity can
come and encome andeñ- ening with the Judwith Me Jud-
son Mard
Carillon SeCarillon Se-
ries presented by the Texas
Tech UniverTech Univer-
sity Ychool of
Music. The Caril-
Ton Series is a performance bells - called carillons - that will Tech campus every Sunday evening
with an hour with an hour of oyful music.
Families with children, students and the public community
are are all welcome to bring their lawn
chairs and picnic chairs and picnic tables to listen
to the chiming bells play a variety of works including popular songs, classical songs, folk music, hymns,
children's songs and original con positions for the carillon.
All performances start tight
after the electronic bells chime the hour for 8 p.m. The concert lasts place to listen is from Memorial Circle north of the Administration building.
This Sunday, the public can come and enjoy songs from Jim ing the Carillon. Quashock is a church
who will be berinforming songs such as The Lord of the Dance, some and more.
Roy Wilson, orchestra direc
for
Disubbock Independent
Sch District, organist at tst.J ohn's's
United Methodist Church adjunct professor of carillon and
organ at Tech, said he has been playing for the Carillon Series since he reurred to Lubbock in 1976 . "I always enjoy playing," Wiil-
son said. "We all very much enjoy playing in the Carillon Series, as well as in the fall for the memorial Wilson said the carillon at Tech, which is located on the west side of
the Administration building, has a total of 43 chromatic bells. He said the public is also wel-
come to come up to the western come to come up to the western
tower of the Administration building and observe the performance

## It is

It is remarkable to see what it means to play and how it all works. ) ROY WILSON Carillon and Organ

Judson Maynard Carillon Series

They are also invited to come up in 1973 when Ruth Baird Laradiff the performance and feel the bee made a donation to Tech
differnt weights of the clappers.
to buy and install a carillon in
come and Tech's first Carillon Series, watch us play in which Wilson performed, while the per- began in the summer of 1979,
formance isgo- He said he is still proud to be ing on," Wil- performing this summer. son said. "It is Wilson has been training remarkable to other musicians so that the see what ex- number of people who vol-
actly it means unteer to play the carillon actly it means unteer to play the carillon
to play a caril- during the summer series has to play a caril- during the
lon and how it increased.
all works." This year will be the 21st TheCharles year for the summer Carillon and Ruth Baird Series, a Tech tradition that Memorial does not seem to be going anyCarillon is a
where anytime soon.
hat first started tristin.walkerettu.edu

ATLANTA (AP) - Most
U.S. adults shouldeat less than
a teaspoon of salt each day, but a
new government report says just
1 in 18 meet that goal.
"This is not good news," said Janelle Peralez Gunn of the Centers for Disease Control and
Prevention, lead author of new Tevention, lead author of a
study released Thursday. Health officials currently say
no adult should eat more no adult should eat more than a teaspoon of salt each day. They
go on to advise that 70 percent of adults - including people with high blood pressure, all AfricanAmericans and everyone over 40 - should actually limit their salt intake to a more restrictive wo-thirds of a teaspoon.
Sodium increases the Sodium increases the risk
of high blood pressure, which is major cause of heart disease and stroke. Salt - or sodium and stroke. Salt - or sodium
chloride - is the main source sodium for most people.

## ARD

|  | R EDITORIAL BO <br>  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | comm |  |  |



2412 BROADWAY (806) 744-4677

## AFTERNOON <br> DELIGHT <br> EUERY MDNDAY-FRIDAY <br> 4:00-7:00 PM

\$2.75 margaritas, HoUs sANcria, WMLTS AND MMXICAN BOTTMTS $50 C$ OFF ALL DRAFT BEERS


| Today's SU |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 8 | 9 | 2 |  |  |  |
|  | 7 | 4 |  | 3 |  | 6 |  |
| 5 |  | 2 |  |  |  |  |  |
|  | 4 | 3 |  |  |  |  |  |
| 9 | 5 |  |  |  |  | 8 | 1 |
|  |  |  |  |  | 7 | 4 |  |
|  |  |  |  |  | 9 |  | 4 |
|  | 2 |  | 4 |  | 6 | 7 |  |
|  |  |  | 3 | 6 | 1 |  |  |

## Classifieds

| Line Ad Rates |
| :---: |
| 15 words or less |
| $\$ 5.0$ per ay |
| Bold Headline |
| $50 ¢$ extra |
| (max. one line) |


$\qquad$


| TUTORS |
| :---: |
|  |
| HELP WANTED |
| BEST COLLE |
|  |
| Ear mimich Am |
|  |
| ENOLISH OR OUOVNMLISM |
| Encome noun |
|  |
| - coun |
|  |
|  |
| GETA |
| Ibatose |
| ORAPMC DESSILN MARKETING |
|  |
|  |
| anin |
| 込 |
|  |
|  |



Human Genome Project promises insight


| BY Chris Leal | amount of genes constitutes an enti different animal altogether. |
| :---: | :---: |
| This Saturday, June 26, marks the 10th niversary of interpreting the human | A more complete understanding of our genetic structure will help us to better |
|  |  |
|  |  |
| manGenome Proje |  |
| , muchpressigeb, wi | est |
| ver change the way humans view |  |
| selves and the world around them. The HGP modestly states its go | Applications of the mapping human genome will bring new, g |
|  |  |
| bilion chemical | e. W |
| man DNA | pre |
| ing this information in digital databases. | consequently finding more advanced |
| This monumental task, figuratively | dicines, treatments and met |
| literally, will identify | gene therapy. |
| chemical ba | There will be co |
| , | omic knowle |
| existed on earth. If you do the | could |
| averages the | manufacturing of material and organic |
| new chemic | chemical compounds and pos |
| ider toget to where humans - taxonon | increased efficiencies in crop yields and |
| cally referred to as Homo Sapiens - exist today. | other methods of food production. <br> However, the deep-seated changes |
| It's har | will be in the ripple effects of how so |
| of the results of this study. In retros | ies interact and view themselves. The |
| turning point in | revelations that come from the studies |
| human spe |  |
| ing |  |
|  |  |
|  | - |
| minor chemical changes in th | fundamental. |

But what if we were to find tangible
genetic variations within the population; genetic variations within the population;
differences in race, culture, intelligence and personality?
If it only yakes less than a year todevelop a new base pair then the past few thousand years of society could prove to be very
divisive. Racialists, hate groups and clas divisive. Racialists, hate groups and clas-
sicists could be given some sort of courage sicists could be given some sort of courage
in their wavs, though the differences could in their ways, though the differences could
very well be hardly distinguishable enough very well be hardy distinguishable enough
to constitute a reason for discrimination. A lso, fear of the unknown is hardly a areason to live in ignorance. It will also be interesting to see how
the ereigions of the word have the religions of the world have to adapt the
posible revelatory insights that come about. pasible revelatory insighst shat come about.
Religions and other metaphysical dogmas Religions and other metaphysical dogmas
havebeen around for thousands of years, and have been around for thousands of years, and
while exponential advancements in ccience have begunn to limitit their role somewhat in the logical functions of the human psyche, I doubt humans will lose their religions altogether anytime in the near future.
Overall the outcomes of the Hum Overall the outcomes of the Human
Genome Proiect promise to be extremely Genome Project promise to be extremely
insighfulu, to say the least. Wére living in a insightuu, to say the least. Were living in a
veryexciting time in human history, and we may soon be able to answer questions shat philosophers, scientists and religious leaders have posited and debated upon since the beginning of conscious tha
$>$ Chris. lealettue.edu


> Here for Orientation? Come see us in the ballroom to:

Order your
La Ventana yearbook
Learn where, when to have yearbook photo taken
Learn where to pick up your copy of The Daily Toreador

Learn how you can work for Student Media

造
Recent government, military actions could leave US vulnerable to terroristic attack

By THOMAS LOTT
General Stanley McChrystal resigned Wednesday from his position as commander in Af-
chanistan. His resignation was ghanistan. His resignation was necessary because of his blatant in-
subordination subordination to
administration. administration.
First of all, his
First of all, his resignation was
completely called for said in his interview with Rolling Stone was overstepping his bounds, and he never should have
done it. done it.
That being said, how much That being said, how much
more is this country more is this
to pacifism?
When
When President Obama was
Wacifm? running for office, he said that he wanted to get our troops out of
Iraq. I understand the sentiment, Iraq. I understand the sentiment, as I have had several friends that
have served in Iraq. Ond of have served in Iraq. One of my
friends' brothers died over there and another was hurt badly in an explosion. I can see the horrible consequences of the war, but I really believe Iraq still needs our help.
One of President Obama's first acts in office was the closing of
Guantanamo Bay tion camp in Cuba formerly used tion camp in Cuba formerly used
to hold terrorism suspects without rights provided by the Geneva
Convention. Ihave to believe this Convention. I have to believe this was done as a way to stop violations of human rights.

## Showplace 6

 \$3 Dollar Movie Theater6707 South University 806-745-3636 showplace6lubbock.com


For the lack of a better way to Bin Laden seeks to kill Americans, put this, anyone that tries to kill and there is no way around that. innocent Americans in our country Don't you think it would be best to hey get. Would anyone that was coming to him?
live on September 11,2001 want What happens if we leave Afto see one of those terrorists in a ghanistan? Will we ever find him? civilian court with the possibility Will the frequency of terrorist at
of getting off? of getting off?
Now, before you freak out, I tacks increase?
that they will.

This whole sequence of our current administration has be gun is leading toward indifference It is almost beyond indifference - it almost seems as if they are encourag ing terrorists to attack us. But don' you worry; Janet Napolitano say
hat the system works. Who doesn't trust her?
We are slowly but surely pulling out of Iraq, and there is still work to be done over there. I will not be surprised if we leave and the country regresses back to the way was when Saddam Hussein was unning things.
We have no where else but Gitmo to put the men that are being pros ecuted for terrorist attacks. I have heard at one point that the men in Gitmo could wind up in prison in Ill. I really don't know if that's true, country would be for that. We are prosecuting the underwea bomber in a civilian court. Ithink that is all that I need to say on that one. What is next? Do we pull out of Afghanistan now that McChrystal is done? I don't know what is going to
happen but I really wish that I could happen but I really wish hia I could to
feel that our government is trying to feel that our government is tying
protect us from imminent threats. And terrorism is an imminent threat, don't kid yourself.
I really hope that President Obama does not have to deal with a terrorist attack, but if he doesn't start being proactive in defending
this country, and above all what we stand for, I am afraid that is just what could happen.
could happen.


