



Way to go, Einstein!

The confirmation of one of Einstein's theories launches scientists into a new era of investigating

8 & 9

three-dimensional printing

Despite new printing lab, Frogs aren't fabricating

By Rachel Tiede

CAMPUS@TCU360.COM

Now available to all students, 3-D printing may soon come at a cost.

Part of the library renovation included the creation of the Fabrication Lab—a 3-D printing room.

Students either bring a 3-D file or design one on the computers in the lab. Lab employees will help students new to 3-D designing.

"We show you how to print the item," said Brad Trussell an innovation collaboration for the TCU library. "And we try to have the students print it, so they can actually learn that process."

Students do not have to be in a class to 3-D print an object—anyone can use it, and for free.

Trussell said that in future semesters there may be a small fee to cover the cost of materials, but that it will be under one dollar to print something the size of a keychain.

The size of the item also determines how long it will take to

print.

"A keychain takes around 30 minutes," said Trussell. "But there's been things we've printed that have taken 20, 30, 40, 50 hours and it just runs continuously nonstop."

Despite it being free to print, there hasn't been a rush of students at the lab.

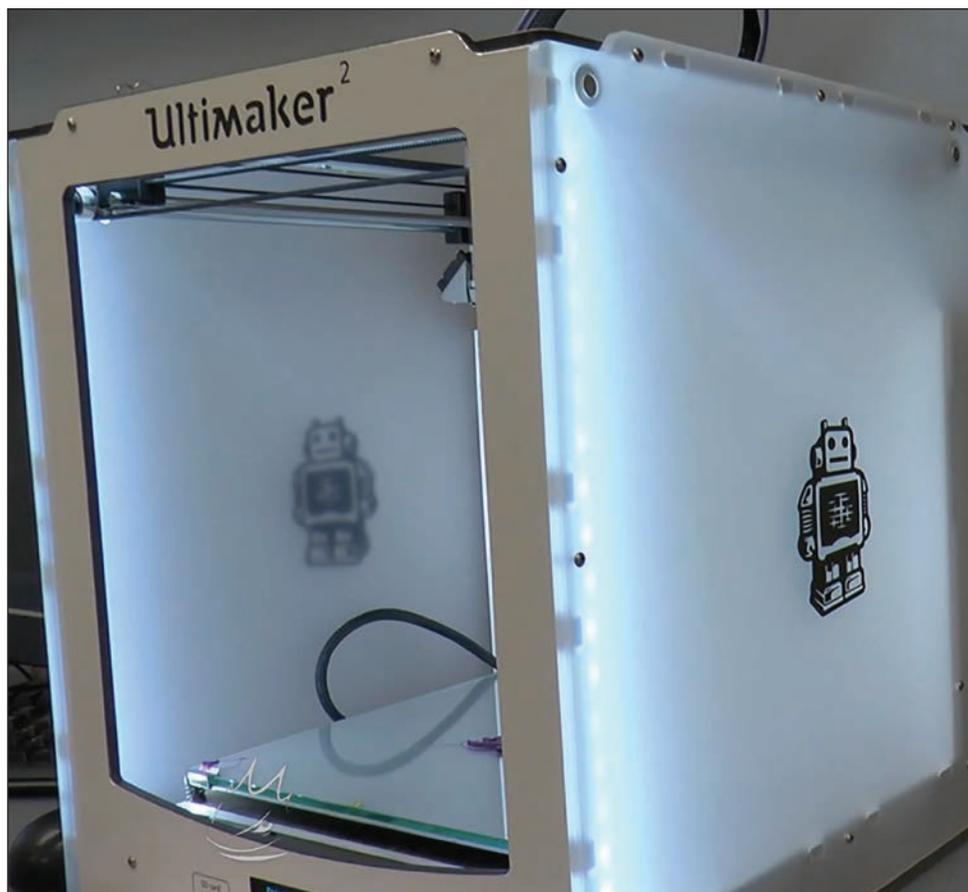
"A lot of people aren't aware that it's open," said Trussell.

Sophomore accounting major Lalita Sundarrajan agreed.

"I knew we had a 3-D printing service, but honestly, I thought it was in Rees-Jones [Hall] and that you had to be a design student or something to use it," she said. "So I had no idea it was accessible to all students, and for free."

The Fab Lab will host a presentation and workshop about 3-D printing and designing on April 11.

The Fab Lab is open Monday through Thursday from 9 a.m. to 6 p.m. and on Fridays from 9 a.m. to 3 p.m.



RACHEL TIEDE / TCU360

FAB LAB Although this 3D printer is free for all students to use, the printer has seen little use.

riff ram, instagram!



@TCU_ATHLETICS

BASEBALL TCU athletics posted a photo to celebrate the Frogs win last weekend. To see your picture featured, hashtag your photo #skiffx360.



The Skiff by TCU360

TCU Box 298050

Fort Worth, TX 76129

360@tcu360.com

Phone (817) 257-3600, Fax (817) 257-7133

Skiff Editor: Jocelyn Sitton

Associate Editor: Victoria Knox

Design Editor: Malia Buthe

Multimedia Editor: Abbie Maynard and Evan Watson

Student Publications Adviser: Robert Bohler

Business Manager: Leah Griffin

Advertising Manager: Abigail Yonker

Director of Student Media: Kent Chapline

Chair, Department of Journalism: John Tisdale

www.tcu360.com

The Skiff by TCU360

Circulation: 2000

Subscriptions: Call 817-257-6274

Rates are \$30 per semester.

Location: Moudy Building South

Convergence Center, Room 212

2805 S. University Drive Fort Worth, TX 76109

Distribution: Newspapers are available free on campus and surrounding locations, limit one per person. Additional copies are \$.50 and are available at the Skiff office.

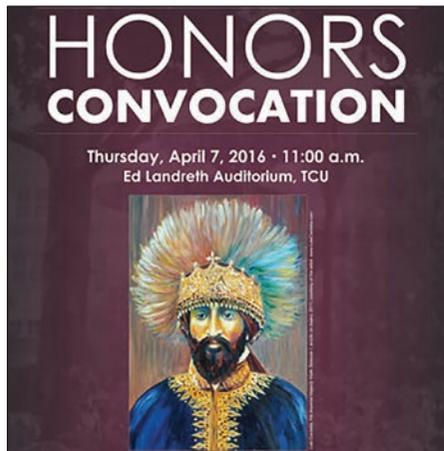
The Skiff by TCU360 is an official student publication of Texas Christian University, produced by students of TCU and sponsored by the TCU Department of Journalism. It operates under the policies of the Student Publications Committee, composed of representatives from the student body, staff, faculty and administration. The Skiff by TCU360 is published Thursdays during fall and spring semesters except finals week and holidays.

COPYRIGHT All rights for the entire contents of this newspaper shall be the property of the Skiff by TCU360. No part thereof may be reproduced or aired without prior consent of the Student Publications Director. The Skiff does not assume liability for any product and services advertised herein.

Liability for misprints due to our error is limited to the cost of the advertising.

events calendar

th07 Honors Convocation-
Featuring Keynote Speaker
Barbara Makeda Blake Hannah
► **Where:** Ed Landereth Auditorium
► **When:** 11 a.m.
► **Cost:** Free



th07 Billy Bob's presents
Corb Lund
► **Where:** 2520 Rodeo Plaza
► **When:** 9 p.m.
► **Cost:** \$10



f08 Ouachita National Forest
Backpacking
► **Where:** Rec Center
► **When:** 3 p.m.
► **Cost:** \$75-90



f08 Billy Bob's presents
Dean Dillon live in the 81 Club
► **Where:** 81 Club at 2520 Rodeo Plaza
► **When:** 9 p.m.
► **Cost:** \$25



f08 Billy Bob's presents
LeAnn Rimes
► **Where:** 2520 Rodeo Plaza
► **When:** 10:30 p.m.
► **Cost:** \$16-25



sa09 Billy Bob's presents
Tanya Tucker
► **Where:** 2520 Rodeo Plaza
► **When:** 10:30 p.m.
► **Cost:** \$14-28



m11 Money Week: Frog It Forward:
Impact of Giving Back
► **Where:** Mary Coats Burnett Library
► **When:** 11 a.m.
► **Cost:** Free

w13 Money Week: Financial Flight:
A Breakfast for Seniors
► **Where:** Brown Lupton University Union
► **When:** 9 a.m.
► **Cost:** Free

w13 Hope n' Mic Night
► **Where:** Brown Lupton University Union Auditorium
► **When:** 7 p.m.
► **Cost:** \$5



First Annual Money Week

Mark your Calendar!
April 11-15, 2016

A week of events and activities to promote financial fitness!

OMR

ONE MILLION REASONS

TCU STUDENT AFFAIRS Student Development Services learn more at www.sds.tcu.edu

SuperShuttle

HOME & CAMPUS AIRPORT RIDES

10% Off Shared-Rides

USE CODE **TCU16**

BOOK ONLINE AT SUPERSHUTTLE.COM

fallout

Iceland's leader is first victim of offshore holdings leak

By Jill Lawless and David McHugh

ASSOCIATED PRESS

LONDON — The leak of millions of records on offshore accounts claimed its first high-profile victim Tuesday as Iceland's prime minister resigned amid outrage over revelations he had used such a shell company to shelter large sums while Iceland's economy was in crisis.

The fall of Icelandic leader Sigmundur David Gunnlaugsson is the biggest fallout so far from the publication of the names of rich and powerful people linked to the leaks, dubbed the Panama Papers.

China and Russia, meanwhile, took the opposite approach, suppressing the news and rejecting any allegations of impropriety by government officials named in the leak of more than 11 million financial documents from a Panamanian law firm.

Officials in Ukraine, Argentina and other countries are also facing questions about possibly dubious offshore tax-avoidance schemes.

The reports are from a global group of news organizations working with the Washington-based International Consortium of Investigative Journalists. They have been processing records from the Mossack Fonseca law firm that were first leaked to Germany's Sueddeutsche Zeitung newspaper.

The announcement that Gunnlaugsson was stepping down came from the country's agriculture

minister. It followed the refusal by Iceland's president to dissolve parliament and call a new election, and after thousands of Icelanders protested outside the parliament building in Reykjavik.

No replacement has yet been named, and Iceland's president did not immediately confirm that he had accepted the resignation.

Gunnlaugsson has denied any wrongdoing and said he and his wife have paid all their taxes. He also said his financial holdings didn't affect his negotiations with Iceland's creditors during the country's acute financial crisis.

Gunnlaugsson sought to call a snap election Tuesday, but President Olafur Ragnar Grimsson refused, saying he wanted to consult with other party leaders before agreeing to end the coalition government between Gunnlaugsson's center-right Progressive Party and the Independence Party.

The leaked documents allege that Gunnlaugsson and his wife set up a company called Wintris in the British Virgin Islands with the help of the Panamanian law firm. Gunnlaugsson is accused of a conflict of interest for failing to disclose his involvement in the company, which held interests in failed Icelandic banks that his government was responsible for overseeing.

Iceland, a volcanic North Atlantic island nation with a population of 330,000, was rocked by a prolonged financial crisis when its main commercial banks



DAVID KEYTON / ASSOCIATED PRESS

PROTESTING People hold banners and protest in front of Parliament building in Reykjavik, Iceland

collapsed within a week of one another in 2008.

Since then Icelanders have weathered a deep recession and been subjected to tough capital controls — another reason the prime minister's offshore holdings rankle many.

China, on the other hand, dismissed as "groundless" reports that the Panamanian law firm had arranged offshore companies for relatives of at least eight present or past members of the Communist Party's Politburo Standing Committee, the apex of power in China.

Among those named in the leaked documents was the brother-in-law of President Xi Jinping. State media have ignored the reports and searches of websites and social media for the words "Panama documents" were blocked.

campus news

Statues unveiled to honor TCU football icons Patterson, Meyer, O'Brien

By Garrett Podell

SPORTS@TCU360.COM

The legacies of TCU football icons Dutch Meyer, Davey O'Brien, and Gary Patterson are now officially a life-sized part of campus in the form of bronze-colored statues outside of Ed and Rae Schollmaier Arena.

The statues were paid for by TCU alumni Bill and Sue Parish.

Bill Parish said the idea for the statues came to him about 16 years ago when TCU hired Patterson.

When Parish heard Patterson's opening remarks about winning national championships and becoming the kind of football program that Miami was in the early 2000's, he said he knew Patterson was giving "real commitment" to the TCU athletic program and the university.

Parish said he required the statues to be life-sized.

"I didn't want monuments, I wanted something that looked as close it could to the real people we're



LAURA BELPEDIO / TCU360

ICON The Gary Patterson statue was paid for by alumni Bill and Sue Parish.

honoring," Parish said. "I want Horned Frog fans to be able to just walk up and take a picture with the statues."

Director of Intercollegiate Athletics Chris Del Conte linked all three of these football icons together.

"Dutch Meyer won our first national championship, Davey O'Brien won the Heisman Trophy, which led to us getting future players like Sammy Baugh," Del Conte

said, "and Gary Patterson led us to the promised land of the Big 12 and brought our program to where it is today."

Chancellor Victor Boschini said TCU simply "wouldn't be here today without Gary Patterson."

Patterson deflected the praise and, instead, focused on his players and the support he gets from administration and his wife, Kelsey.

"It's all about the players," Patterson said. "I have great bosses who let us be who we are and bosses who don't try and mold us the way they want."

To emphasize his "it's all about the players" message, he called up former players and coaches to share the stage with him.

Patterson teared up when talking about the love and support from his wife.

"Everyone has someone who stands behind them, and for me that's Kelsey," Patterson said. "I had a one-track mind only about football, but Kelsey has helped me become a better father and better man."

entertainment

LONESOME DOVE

cast reunites after 27 years



PHOTO COURTESY STEPHANIE SCHULZ

ALL BACK TOGETHER The cast and crew of “Lonesome Dove” reunited in Fort Worth. TCU hosted a panel of actors featuring Robert Duvall, Ricky Schroder, Chris Cooper and Danny Glover.

By Shane Battis
CAMPUS@TCU360.COM

It’s been 27 years since “Lonesome Dove” premiered on CBS, and the cast and crew reunited in Fort Worth as part of The Lonesome Dove Reunion and Trail.

The reunion features a series of exhibitions and meet-and-greets that celebrate the popular Western miniseries.

“Lonesome Dove,” based on Larry McMurtry’s novel, is about aging Texas rangers Cpt. Woodrow Call and Cpt. Augustus McCrae, who brave the open plains to herd a team of cattle from Texas to Montana.

The series won seven Emmys and two Golden Globes in 1989 (including Best Miniseries and Best

Actor) among other awards.

TCU hosted a panel of actors featuring Robert Duvall, Ricky Schroder, Chris Cooper and Danny Glover, who talked with executive producer Suzanne de Passe about their roles and the Western epic’s enduring legacy.

De Passe, praised Duvall for his performance several times and said it’s unthinkable to even consider anyone else playing the beloved character. The crowd audibly agreed with a chorus of approving grunts.

As unthinkable as it may be to the fans, Duvall explained about how he was originally offered the role of Cpt. Call. He said it was his now ex-wife who pushed him to play Call’s companion after introducing him to McMurtry’s book.

Duvall said he refused to play anyone other than McCrae and convinced James Garner, who had already been offered the part, to hand the reins over in just a few hours.

Schroder, who played the young cowboy Newt Dobbs, talked about how he wasn’t interested in what he deems his defining role at first. The then 18-year-old actor said he wanted to take a break from acting after starring in the show “Silver Spoons” for five years, and he had a horse allergy to boot.

Schroder eventually accepted the role from director Simon Wincer (who promised to have Schroder’s horse washed to ease the allergies) and said he “fell in love with the culture and the lifestyle” of the West and later bought a ranch in Colorado.

Schroder, the youngest panelist, repeatedly joked with the 85-year-old Duvall about his age to the delight of the chuckling audience. Duvall responded with good humor.

For Schroder, however, the reunion was bittersweet. The iconic Lonesome Dove town, he said, had been

torn down to a pile of wood boards by the time he returned the visit the old set in south Texas.

“It’s gone,” Schroder said. “Now it only lives in ‘Lonesome Dove’ film and photographs and in our memories.”

Audience members sporting cowboy hats, boots, duster coats and fringe leather jackets erupted into a standing ovation as soon as the cast stepped on stage. They chuckled at the panelist’s banter and choked back tears when heart-wrenching scenes from the series, like the death of Cpt. Augustus McCrae and Joshua Deets were played on the ballroom’s large screens.

Chris Cooper, who played Arkansas Sheriff July Johnson, was emotional too. He dabbed his eyes with a napkin while watching the scene where Johnson finally found his runaway wife after months of searching.

That tearful monologue, Cooper said, was his audition scene that he “worked [his] ass off” to perfect.

Danny Glover, who played Deets, said that was the first time he’d watched his character’s death scene since the premiere in 1989.

Although Glover may not look back at his work, his southern fans are there to remind him.

Duvall has also heard from Texans who still cherish the film 27 years later. He said he met a woman in Texas who watches ‘Lonesome Dove’ with her family once a year and refused to let her daughter marry her fiancé until he’d seen it.

Mayor Betsy Price, a long time fan of the miniseries, said Fort Worth was chosen to host the reunion because “we are the home of cowboys and culture, both of which ‘Lonesome Dove’ celebrates.”

Visit the Lonesome Dove Reunion and Trail event calendar for more information on upcoming exhibits featuring costumes, props, and photographs from the making of “Lonesome Dove.”

LAKE WORTH MOVIES 14

STARPLEX

CINEMAS

100% DIGITAL LOCATIONS

817-263-2677 • 6300 NW Loop 820

\$5 Shows Before 6pm Child, Srs. Anytime

<p>HARDCORE HENRY [R] 7:30</p> <p>10 CLOVERFIELD [PG13] 1:20 4:10 7:10 10:00</p> <p>BATMAN V. SUPERMAN: DAWN OF JUSTICE [PG13] 12:00 1:15 3:30 5:00 7:00 8:30</p> <p>DEADPOOL [R] 1:30 7:05</p> <p>DIVERGENT SERIES: ALLEGIANT [PG13] 12:10 3:10 6:20 9:20</p> <p>GOD'S NOT DEAD 2 [PG13] 12:15 3:00 6:15 9:15</p> <p>I SAW THE LIGHT [R] 12:20 3:40 6:50 9:40</p> <p>LONDON HAS FALLEN [R] 4:30</p> <p>MEET THE BLACKS [R] 1:10 3:50 6:40 9:10</p> <p>MIRACLES FROM HEAVEN [PG] 1:00 4:00 6:45 9:50</p> <p>MY BIG FAT GREEK WEDDING 2 [PG13] 12:40 3:20 6:10 9:00</p> <p>THE REVENANT [R] 12:50 7:20</p> <p>THE WITCH [R] 4:20 9:55</p> <p>ZOOPTOPIA [PG] 12:30 3:15 6:30 9:30</p>	<p style="font-weight: bold; font-size: 1.2em;">3D</p> <p>FEATURES</p> <p>BATMAN V. SUPERMAN: DAWN OF JUSTICE [PG13] 12:45 2:30 4:15 6:00 7:45 9:45</p> <p style="font-size: 0.7em;">*Upcharge applies to all 3D films</p>
---	--

HULEN STADIUM 10

\$5.50

Shows Before 6pm Child, Srs. Anytime

Now Serving BEER & WINE

6330 Hulen Bend Blvd • 817-263-0001

<p>HARDCORE HENRY [R] 7:30</p> <p>BATMAN V. SUPERMAN: DAWN OF JUSTICE [PG13] 11:30 2:45 6:00</p> <p>DIVERGENT SERIES: ALLEGIANT [PG13] 11:10 2:00 4:50 7:40</p> <p>EYE IN THE SKY [R] 11:50 2:25 5:00 7:25</p> <p>GOD'S NOT DEAD 2 [PG] 11:25 2:10 4:55 7:40</p> <p>I SAW THE LIGHT [R] 11:05 1:55 4:45 7:35</p> <p>MEET THE BLACKS [R] 11:35 2:05 4:35 6:55</p> <p>MIRACLES FROM HEAVEN [PG] 11:00 1:40 4:20 7:00</p> <p>MY BIG FAT GREEK WEDDING 2 [PG13] 11:45 2:15 4:40 7:10</p> <p>ZOOPTOPIA [PG] 11:15 1:50 4:30 7:30</p>	<p style="font-weight: bold; font-size: 1.2em;">3D</p> <p>FEATURES</p> <p>BATMAN V. SUPERMAN: DAWN OF JUSTICE [PG13] 12:15 3:30 6:45</p> <p style="font-size: 0.7em;">*Upcharge applies to all 3D films</p>
---	---

Pay No Ticketing Fees at StarplexCinemas.com

Movie Times for April 8, 2016

global citizenship

Student recognized for anti-trafficking efforts



YVONNE UMUGWANEZA / TCU360

RECOGNITION Larry Adams presents Larry Award to Madeleine Bailey for exhibiting global citizenship following her study abroad trip to India.

By Yvonne Umugwaneza
CAMPUS@TCU360.COM

One TCU student was recognized last week for her impact and involvement in fighting against human trafficking.

Senior political science major Madeleine Bailey received the Larry Adams International Experience Award on Monday for her impact and involvement

in fighting against human trafficking.

The Larry Award is presented annually to undergraduate study abroad students who exhibit global citizenship following their time abroad.

While Bailey studied abroad in India last summer, she saw the negative impact that human trafficking has on people in India, said Susan Layne, study abroad advisor in the Center for International Studies. "Although human trafficking is a tough subject to talk about, hard to see in a real life, and harder to try getting solutions for, Bailey started to interact with victims of human trafficking connected with them quickly," Layne said.

Since her return at TCU, Bailey has been looking for solutions to the human trafficking issue. She founded Outrun Trafficking and Co-Founded of International Justice Mission.

These projects have raised significant awareness of the human trafficking issue on the TCU campus and almost \$20,000 for local and international organizations for anti-human trafficking.

Bailey was nominated by Dr. Tracy Williams, associate director of the Center for International Studies, who was with the students in India.

"I saw her engage with different people including politicians, human rights activists, children victims

of labor trafficking, and women victims of sex work trafficking," Williams said.

Williams said Bailey understood the complex dynamics of criminal networks that make these things happen, the poverty that leads people to be vulnerable, and the systematic situations that make it hard to prosecute.

"Students who study abroad not only get to learn more about cultures but more importantly, they have the opportunity to use that knowledge to have an impact on their personal lives and campus," Layne said.

Bailey is the third recipient of the Larry Adams Award. The 2015 recipient was Sydney DeSpain for her study abroad in Ghana and her impact with book drives for Ghanaians.



YVONNE UMUGWANEZA / TCU360

AWARD ACCEPTANCE Bailey accepts Larry Award for her efforts to stop human trafficking.

THIS IS

ONLY ONE BLOCK FROM TCU CAMPUS

COMMON GROUND GRILL & TAP
NOW OPEN ON THE GROUND FLOOR

One, Two, Three, and Four Bedroom Suites
Washers & Dryers Included in every Suite
Urban Oasis Featuring H2O and Tanning Deck
State-of-the-Art Fitness Studio

NOW LEASING FOR FALL 2016

PREMIER STUDENT APARTMENTS

UNIVERSITYHOUSE.COM

817.926.0448

musician passing

Country icon Merle Haggard, champion of the underdog, dies

By Kristen Hall
ASSOCIATED PRESS

NASHVILLE, Tenn. — Country giant Merle Haggard, who rose from poverty and prison to international fame through his songs about outlaws, underdogs and an abiding sense of national pride in such hits as “Okie From Muskogee” and “Sing Me Back Home,” died Wednesday at 79, on his birthday.

Haggard’s manager, Frank Mull, said the country icon died in Palo Cedro, California, of pneumonia that he had been battling for months. His publicist, Tresa Redburn, said no official cause of death has been determined.

He had kept up an ambitious touring schedule, but the pneumonia in both lungs had forced him to cancel several shows this year. Mull said his family was by his side when he died at home and they were planning a funeral for Saturday at his home.

A masterful guitarist, fiddler and songwriter as well as singer, the Country Music Hall of Famer with the firm, direct baritone recorded for more than 40 years, releasing dozens of albums and No. 1 hits.

“He was my brother, my friend. I will miss him,”



ERIC SCHELZIG / ASSOCIATED PRESS

MEMORY Flowers memorialize the death of Merle Haggard near his plaque in the Country Music Hall of Fame.

said Willie Nelson, his longtime friend, in a statement. Tanya Tucker recalled fondly the time they ate bologna sandwiches by the river: “I just can’t imagine a world without Merle. It’s so hard to accept, but I’ll continue honoring him on stage just as I do during every show.”

The White House called Haggard a “legend” and said President Barack Obama was sending his thoughts and prayers to Haggard’s family. White House press

secretary Josh Earnest said Haggard told stories that people from all walks of American life could relate to.

“His passing is a loss for country music, but obviously is a loss for all the people who got to know him personally, too,” Earnest said.

Haggard — along with fellow California country star Buck Owens — was a founder of the twangy Bakersfield Sound, a direct contrast to the smooth, string-laden country records popular in Nashville, Tennessee, in the 1960s.

His music was rough yet sensitive, reflecting on childhood, marriage and daily struggles, telling stories of shame and redemption, or just putting his foot down in “The Fightin’ Side of Me” and “I Think I’ll Just Stay Here and Drink.”

His most beloved songs included the prison ballad “Sing Me Back Home,” the tributes to his mother “Mama Tried” and “Hungry Eyes,” the romantic lament “Today I Started Loving You Again” and such blue collar chronicles as “If We Make It Through December” and “Workin’ Man Blues.”

“We’ve lost one of the greatest writers and singers of all time. His heart was as tender as his love ballads,” said Dolly Parton. “I loved him like a brother.”

Student journalists, staff win 32 awards at TIPA Convention

Student journalists representing TCU 360 brought home 32 awards – including nine first-place awards – from the Texas Intercollegiate Press Association Convention last week. The students who competed for TCU included reporters and staff members of TCU 360, Image Magazine, the Skiffx360 newspaper, and the TCU Sports Now and TCU News Now broadcasts.

Among the awards announced on Saturday, TCU Sports Now was named top sportscast and Image Magazine won in overall excellence for general magazines.

Television

- Janette Quezada, Mario Montalvo, Samantha Calimbahin: 1st place, Documentary
- Sarah Breuner: 1st place, Audition Tape
- TCU Sports Now Staff: 1st place, Sportscast
- Kylie Walker: 1st Place, News Feature Story
- Samantha Calimbahin: 1st place, Sports Non-Feature Story
- Kylie Walker: 2nd place, Audition Tape
- Kylie Walker: 2nd place, Sports Non-Feature Story
- TCU Sports Now Staff: 2nd place, Sportscast
- Hannah Kuhns, Evan Folan, Tyler Shahin: 2nd place, Public Affairs Program
- Kylie Walker: 3rd place, News Non-Feature Story
- Taylor Williams, Hannah Johannes, Hayes Clement: 3rd Place, Documentary
- TCU News Now Staff: HM, Best Newscast
- Lena Blietz, Shannon McLaughlin, Jordan Ray: HM, Public Affairs Program

Newspaper Division I

- Brad Hardcastle: 1st place, Sports News Story
- Adam Kelley: 2nd place, News Story

Newspaper Division I cont.

- Donald Griffin: 2nd place, Illustration
- Staff: 3rd place, Editorial
- Tori Whitley: 3rd place, Feature Story
- Dean Straka: 3rd place, Sports Column
- Jocelyn Sitton, Dean Straka: 3rd place Information, Graphic
- Jocelyn Sitton: HM, Sports Page Design
- Brad Hardcastle: HM, Sports Feature Story

General Magazine

- Staff, Image: 1st place, Overall Excellence
- Rachel Tiede: 3rd place, Feature Story
- Kaitlin Helm: HM, General news photo
- Staff: HM, Story Package
- Mario Montalvo: HM, News Feature Story

ONLINE DIVISION I

- Brad Hardcastle: 1st place, Best Multimedia package
- TCU 360 Staff: 1st place, Best Interactivity
- Hannah Kirkpatrick: 2nd place, Best Video Package
- TCU 360 Staff: 2nd place, Website Navigation
- Shelby Whitson: 3rd place, Best Multimedia Package

Ripple Effect

TCU professor talks gravitational waves

by Beth Griffith



ANDREW HARNIK / ASSOCIATED PRESS

EINSTEIN DISCOVERY A visual of gravitational waves from two converging black holes is displayed on a monitor during a news conference. The conference announced that scientists have finally detected gravitational waves, the ripples in the fabric of space-time that Einstein predicted a century ago.



LIGO.CALTECH.EDU

DISCOVERY This photo shows the control room of the LIGO Hanford detector site near Hanford, Washington.

A long time ago, in a galaxy that was, yes, far, far away, two massive black holes drew close together. The two stellar ghosts whirled around each other at half the speed of light and collided, sending a shudder through the universe in the form of gravitational waves. Six months ago, those waves rippled past earth. Physicists announced the detection of waves in February, ending a quest that has lasted decades and opening a new door of discovery to the heavens.

TCU physics instructor Doug Ingram said the discovery could or could not be a pivotal turning point in physics, though. Either way, it's something to appreciate.

"Maybe it will be nothing," Ingram said. "Maybe it'll just be a historical curiosity, 'oh, Einstein was right again.' You never know which one of these fundamental discoveries will revolutionize our lives. You can't predict that."

Einstein was right

However, Einstein did predict the discovery. The detection of gravitational waves, the result of two black holes colliding, proved a part of Einstein's 100-year-old theory of relativity.

Ingram said the discovery makes scientists appreciate how smart Einstein was to accurately predict something people wouldn't even be able to discover for a hundred years.

"Einstein is pretty much batting a thousand," Ingram said. "Everything he predicted about space, about time, and about relativity is correct right down to the last significant digit. It's incredible that he was able to think up all of this without any experimental verification."

Senior physics major Thomas Paz said the discovery proved Einstein's true genius.

"It's pretty amazing," Paz said. "I couldn't even imagine having the capacity to think up so many predictions about time and space – a concept still very elusive back then."

Without advanced technology, no one could confirm Einstein's theories back then, but he thought, "this must be true," Ingram said.

"It's a great example of how science ought to work," Ingram said.

Paz also said that the discovery set a good example for young scientists.

"In science you're supposed to start with a hypothesis and then test it," Paz said. "Many times in science people work backwards instead of starting with a thought or prediction."

To put it simply, everything has gravity and gravity is everywhere. Gravity is what keeps Earth tethered to the Sun. If

some magical force said, the earth would be about eight minutes away from outer space because of its influence to get there.

Einstein predicted the theory of relativity in 1905, a concept and was a revolutionary idea.

"Einstein had a little bit wrong with his theory, but he thought gravity was carried by waves."

However, detecting these waves, an event, technology was needed.

"The problem with these waves are almost impossible to detect if it was some really sensitive detector. It took years that we were able to locate them."

To detect these waves, an instrument so sensitive that it could measure the distance between two points as far away as the thickness of a human hair.

This discovery was a great idea and led us into a new era of physics.

"We're excited about the first step into a new era of gravitational waves. At the same time, it's hard to know if it will not lead to anything. We discover anything we're going to go. You know everybody's life."

Paz said he is excited.

"It's a really cool kind of waiting to see how cool for astronomy."

The chirp heard from the condensed around the black holes.

It took only a few minutes for two black holes to merge, but checking to make sure the theory was correct.

"They actually detected the wave detector so it was a big deal."

Ingram said that the discovery randomly injected into the world, but he thought, "this must be true."

"They recognized that they could be excited about themselves," Ingram said.

Ingram said that the discovery was enough event to make sure there should be a way to detect them.

"There will be a way to detect them," Ingram said. "They only published their findings."

force made the sun completely vanish, Ingram would still orbit where the sun used to be for minutes and then “whoosh” we’d take off into space because it takes that long for the gravitational waves to reach here.

Einstein predicted gravitational waves in his general theory of relativity in 1915. This theory suggested space-time as a fabric and waves would be a distortion of space-time. Ingram discovered that there was something a little different about our theory about gravity,” Ingram said. “He must move at the speed of light and maybe faster than light waves.”

Detecting the waves would require a mammoth technological prowess, and a long history of hunting. “In fact, gravity is such a weak force that the waves are impossible to detect, so we could only detect it from a really massive event and we had some really good luck,” Ingram said. “It was only in the last few years we were able to build a sensitive enough detector to look and see if Einstein’s predictions were right.”

For this cataclysmic event, scientists used an interferometer so sensitive it could detect a change in the length of the solar system and a star four light-years away, the thickness of a human hair.

The discovery is the confirmation of one of Einstein’s last wishes. It has launched Astronomy and other science fields and is a new way of investigating the Universe.

“We’re excited because we recognize that this could be the first brand new way of observing the universe with gravitational waves instead of light waves, but at the same time we’re excited because it may change the way we think about the universe,” Ingram said. “We’re excited anytime we see something new because we don’t know where it’s going to lead. It might not.”

“I’m excited to see where the discovery will lead. It’s a real cool discovery,” Paz said. “Right now we’re just trying to see what will happen, but it could be really exciting in the future.”

“I’ll go around the world and talk about it. As they moved through space, they stretched and distorted space and Earth “like Jell-O.”

“It took one-fifth of a second to hear the “chirp” of the two black holes colliding, but it took months of meticulous work to be sure the evidence matched Einstein’s predictions.”

“We take great pains to run the gravitational wave detectors so they can’t be fooled by false alarms,” Ingram said.

“We know that the physicists working on the project are looking for false signals to run at different intervals to make sure the computer handles them the right way. It’s such a sensitive measurement that they’re easily fooled, so they’re constantly trying to fool themselves,” Ingram said. “They’re their own biggest skeptics.”

“What if that black hole collision was a big event that set off our gravitational wave detectors then we’d see a few of those per year that scientists should expect to see. It’s probably a few of those every decade,” Ingram said. “They actually saw multiple smaller incidents, but they were really confident about the one they were really confident about.”



ANDREW HARNIK / ASSOCIATED PRESS

NATIONAL PRESS CLUB NEWS CONFERENCE Laser Interferometer Gravitational-Wave Observatory (LIGO) Co-Founder Kip Thorne speaks next to a visual of gravitational waves from two converging black holes.

It’s hard to predict what it means. Black holes are the holy grail of the gravitational wave concept. Until now scientists have only been able to see the aftereffects of collisions and black holes were an enigma themselves.

Ingram said this discovery could open the door to a whole new way to observe the universe.

If gravity acts like waves, Ingram said, scientists could build more sensitive detectors and observe more things than they could before.

“There are things in the universe that we can’t see,” Ingram said. “Gravitational waves will allow us to see into some places we could never see before.”

Ingram said that it starts with building more sophisticated detectors and developing theories to experiment, but the possibilities are numerous.

“As we build more sophisticated detectors we can start to figure out where are they coming from, how they change with time, how many sources are out there, how matter in the universe distributed,” Ingram said. “Is there some new physics here, on a very sensitive level, are gravitational waves affecting atoms somehow, are they affecting space somehow?”

Ingram said that scientists could also focus on the waves and ways to manipulate them.

“There’s no telling,” Ingram said. “Can [gravitational waves] be focused and strengthened? Can they be diverted? Who knows? We’re just now starting to explore that. The first step is seeing one.”

However, Ingram said the discovery is not that significant yet.

“It’s hard to predict what it means,” Ingram said. “That’s science. You’re just kind of groping around in the dark hoping you stumble on something major.”



SXS, THE SIMULATING EXTREME SPACETIMES (SXS) PROJECT
SCIENCE The two merging black holes are each roughly 30 times the mass of the sun, with one slightly larger than the other. The event took place 1.3 billion years ago.

sports calendar. baseball. men. golf. beach volleyball. equestrian. women. track. rifle.



GOFROGS.COM

TRACK & FIELD TCU spinter Joshua Washington competes in a relay at the Texas Relays.

sports calendar

f08 Baseball at Kansas

6 p.m. in Lawrence, Kansas

f08 Women's Tennis vs. Baylor

2:30 p.m. in Fort Worth

f08 Men's Tennis vs. Oklahoma

5:30 p.m. in Fort Worth

sa09 Baseball at Kansas

6 p.m. in Lawrence, Kansas

sa09 Women's Outdoor

Track and Field at Baylor Invitational

All Day in Waco

sa09 Beach volleyball vs. Jacksonville

7:30 a.m. in Siesta Key, Florida



JIM BOYD / GOFROGS.COM

WOMEN'S TENNIS Caroline Wegner competes in a match against Kansas State.

get your facts straight about TCU Sports

6

Runs by TCU baseball in the 5th inning against Wichita State on April 3

25

Times this season TCU baseball has scored four or more runs in an inning

15

Straight games TCU baseball player Austen Wade has reached base safely

13

Holes freshman women's golf player Brooke McDougald shot par at the SMU Dallas Athletic Club Invitational

320

Yard hole where freshman women's golf player Annika Clark had an eagle

3

Times this season that TCU beach volleyball has swept Texas A&M Corpus Christi

16

Wins this season by sophomore women's tennis player Alexis Pereira

13.19

Record time in the 100-meter hurdles at the Clyde Littlefield Texas Relays by senior women's track and field runner Brianna McGhee, breaking her previous school record

academics

Students paint bacteria as part of Science Meets Art Initiative

By **Connie Beltran**
CAMPUS@TCU360.COM

The Science Meets Art initiative aims to have art students learn about science, and science students learn about art while painting and drawing what they see in microbiology.

Clark Jones, an instructor of biology, said students went out and collected swabs from different places where bacteria could be found and cultivated it, then examined it under a microscope.



CONNIE BELTRAN / TCU360

SCIENCE MEETS ART Science students paint bacteria cultivated in petri dishes.

“They were able to see a world of small bacterial and fungal objects that they would not have been able to see with their naked eye alone,” he said.

From their observations in the lab, they drew ideas for their artwork.

“The students have a chance to see how science connects to their life,” Jones said, “but even more importantly, they found new inspirations for art.”

Lindsey Dunnagan, an adjunct instructor of art, said art can help people understand complex subjects such as microbiology.

“We are surrounded by art in our daily lives, and it can be very impactful,” she said. “If art brings knowledge of things in science then, sometimes it can be more easily absorbed by layman.”

For Bianca Hursh, first-year neuroscience major and studio art minor, this initiative represented an opportunity to incorporate her two areas of study into one project.

Although she is a science major, this experience has allowed her to look at science in a different way, she said.

“The subtleties and some of the things are more beautiful in science than I would’ve really noticed by just looking at them in a science class, in a scientific setting,” Hursh said.



CONNIE BELTRAN / TCU360

BACTERIA Students paint and draw their observations of small bacteria.

Science Meets Art is a part of the SciCom initiative which is intended to help science students communicate their work and research.

“I really believe in a cross and multidisciplinary approach to education,” Jones said. “This was a perfect way to add another component of that, so I hope that compliments SciCom.”

The students’ artwork will be entered for competition and displayed at the annual Student Research Symposium on Friday.

Best Pizza in Dallas -- 2015 Observer
Best Pizza in Texas -- USA Today
Most Incredible Pizza You'll Ever Eat -- Rachael Ray

★ *Now in Fort Worth!* ★
Be a Server, Bartender or Busser!

GREAT TIPS!
FLEXIBLE HOURS!
CLOSE TO CAMPUS!
POSITIONS GOING FAST!



OLIVELLA'S FROM NAPLES
BRICK OVEN NEO PIZZA NAPOLETANA

Contact us
miker.olivellas@gmail.com
<http://olivellas.com/employment-at-olivellas/>

6333 Camp Bowie Blvd Suite 240
Ft Worth, TX 76116
817.439.7676



EVERY THURSDAY IS TCU NIGHT
Come in for drink specials

KARAOKE
WED | FRI | SAT 9 PM - 2 AM

Under 21 Not Admitted
Free Wifi

3570 Seminary Dr.
Fort Worth, TX 76133
817 - 921 - 4861

fort worth community

Open Streets event closes roadway in order to open for people



CLAIRE GIRMAN / THE109

DFW EVENT People engage with local businesses at Open Streets on Magnolia Avenue.

Amy Warner, a representative of DFW Beagle Buddies, said this is the organization's fourth year participating in Open Streets.

"This year I've noticed they've put more of an emphasis on the bikes and giving more room for people to ride," Warner said. "I think that's a really nice change they've done."

Brennan said accommodating bicyclists, skaters and walkers this year remained a high priority, but also leaving enough space for local businesses to offer activities to families and passerbys.

Visitors and families could participate in a variety of events hosted by area businesses, which ranged from face painting, hoola-hooping, dancing to playing music.

"This is a fun way of increasing awareness of the area and businesses for the people who are here," he said.

Brennan said the event originally catered to residents in the surrounding neighborhoods of the Near Southside district, but growing attendance has proven the event is reaching others across Fort Worth.

"It started at the neighborhood scale. People could roll out of bed on Sunday, get their bikes together and ride down the street and this event would be going on," Brennan said. "It's now turned into a regional draw. The goal now is to provide a fun time for the surrounding neighborhoods and the rest of the community."

Angela Kaufman, a campus minister at TCU, said this was the first year she and her two children have visited Open Street.

"This [event] is huge for the community, because it reminds us how important it is to get to know our neighbors," Kaufman said. "Fairmount and this whole area of town sets a great example for the rest of us. It's important to realize that we live together and we ought to live together well."

Brennan said many people were quick to get behind the idea of bringing visitors and natives together, as well as building camaraderie among the small businesses.

The general sponsors for this year's event were Baylor Scott & White All Saints Medical Center, Dunaway Associates, Pilates Works, Site Barricades and Tarrant County College.

"In addition to this, we had a long list of people who wanted to help," he said. "A neighborhood resident, John Shay, was in charge of setting up the skate park for this year's Open Street event. Cowtown Marathon donated the water coolers."

In preparation for next year's event, Brennan said the planning of the event will remain relatively the same, but his team will continue finding ways to draw more people to the area.

He said the event wouldn't be a success without the help of visitors, residents and community partners who make a presence every year.

"The team at Fort Worth South, Inc. just gets the word out – it's our partners who say 'we're gonna be there' and it all comes together pretty smoothly," Brennan said.

James R. Mallory
Attorney at Law

**TRAFFIC TICKETS
DEFENDED.**

Fort Worth, Arlington, Richland Hills,
Benbrook, Crowley, Hurst, Euless,
Grapevine, and elsewhere in
Tarrant county.

No promises as to results. Any fine and any
court costs are not included in fee for
legal representation.

3024 Sandage Avenue
Fort Worth, TX 76109
(817) 924-3236

www.jamesmallory.com

tcu360.com

**We're All News,
All the Time**



Go online to
stay current in
all university
news!



By Claire Girman

COMMUNITY@THE109.ORG

Representatives from a local non-profit organization said one of their least expensive events to finance on the calendar has become renowned for uniting people and area businesses.

Open Streets, an event facilitated by representatives of Fort Worth South, Inc., was showcased on Sunday for the sixth year in the Near Southside District along Magnolia Avenue.

Mike Brennan, the Director of Planning for Fort Worth South, Inc., said the intent of the event is to convert a popular roadway to a space where people can walk, ride bicycles and skateboard, but also engage with local businesses.

He said the idea of Open Streets was inspired by a movement that started in South America.

"The government was dealing with smog problems," he said. "They said: 'You know, we would benefit from a reduction in car traffic at least once a week.' So on a Sunday afternoon, they would close a major roadway to cars and open them up to people."

Brennan said he's seeing more people discovering the Near Southside based on the sheer growth in the event's attendance over the years.

"Based on last year's crowd, it got to a point where the street was so congested, we had to take some steps this year to ensure people who were on bicycles, skates or skateboards had a section of the street where they could safely ride," he said.

Classifieds

Student Media Advertising
817.257.7426 or ads@tcu360.com

Chicotky's Liquor & Fine Wine

Now taking applications for counter sales and stockers. We are an 82-year-old Fort Worth institution and a fun place to work with good starting pay.

Please contact Robert or Mark Chicotsky.
817-332-3566.

election coverage

Cruz win in Wisconsin leaves Trump damaged front-runner

By Julie Pace and Jonathan Lemire

ASSOCIATED PRESS

NEW YORK — Republican Donald Trump emerged from Wisconsin as a damaged front-runner following a crushing loss to rival Ted Cruz, deepening questions about the billionaire businessman's presidential qualifications and pushing the GOP toward a rare contested convention fight.

Democrat Bernie Sanders also scored a sweeping victory in Wisconsin's primary that gives him a fresh incentive to keep challenging Hillary Clinton. But Sanders still lags Clinton significantly in the delegate count.

Both parties are turning their sights toward New York, which offers a massive delegate prize in its April 19 contests. It marks a homecoming of sorts for several candidates, with Trump, Clinton and Sanders all touting roots in the state.

Trump, who has dominated the Republican race for months, suddenly finds himself on the defensive as the campaign moves east. He's struggled through a series of missteps, including his campaign manager's legal issues after an altercation with a female reporter and his own awkward explanation of his position on abortion.

Exit polls in Wisconsin highlighted the deep worries about Trump surging through some corners of the Republican Party. A majority of GOP voters said they're either concerned about or scared of a potential Trump presidency, according to surveys conducted by Edison



PAUL SANCYA / ASSOCIATED PRESS

ELECTION Republican presidential candidate Ted Cruz waves during a campaign event in Milwaukee.

Research for The Associated Press and television networks.

Cruz has stepped forward as the candidate best positioned to block Trump, though it would likely take a convention battle to accomplish that goal. A Texas senator with a complicated relationship with Republican leaders, Cruz cast his Wisconsin victory as a "turning point" in the race and urged the party to rally around his candidacy.

Even if Cruz's gains do force the GOP race into a contested convention in July, it is unclear whether he would emerge as the nominee, or whether the party would try to put forward someone else.

Trump was unbowed in his defeat. His campaign put out a biting statement accusing Cruz of being "worse

than a puppet — he is a Trojan horse, being used by the party bosses attempting to steal the nomination from Mr. Trump."

In response, Cruz' communications director Jason Miller said late Tuesday that "Donald Trump has a real problem when he gets his tail kicked, and that's exactly what happened tonight."

Sanders still trails Clinton in the pledged delegate count and has so far been unable to persuade super-delegates— the party officials who can back any candidate — to drop their allegiance to the former secretary of state and back his campaign.

At a raucous rally in Wyoming, Sanders cast his victory as a sign of mounting momentum for his campaign.

"With our victory tonight in Wisconsin, we have now won 7 out of 8 of the last caucuses and primaries," he declared.

With an overwhelming white electorate and liberal pockets of voters, Wisconsin was favorable territory for Sanders. In a sign of Clinton's low expectations in the Midwestern state, she spent Tuesday night at a fundraiser with top donors in New York City.

Clinton congratulated Sanders on Twitter and thanked her supporters in Wisconsin. "To all the voters and volunteers who poured your hearts into this campaign: Forward!" she wrote.

Sanders' win will net him a handful of additional delegates, but he'll still lag Clinton significantly. With 86 delegates at stake in Wisconsin, Sanders will pick up at least 47 and Clinton will gain at least 36.

city council

Fort Worth residents to vote on salary increase for city council

By Tori Knox

COMMUNITY@THE109.ORG

The May 7 charter election will include a proposition to increase the salary of the Fort Worth mayor and council members.

Proposition 3 would increase council members' pay from \$25,000 to \$45,000, and the mayor's salary from \$29,000 to \$60,000, according to the City Charter Review Task Force's recommendations.

The City Charter Review Task Force was established to find recommendations to the existing charter. The recommendations include increasing the number of council members, increasing terms of office and increasing the council members' salary.

The task force compared multiple cities that are similar in population and government including Austin, Dallas, San Antonio, Kansas City and Oklahoma City,

said Mary Kayser, city secretary of Fort Worth.

If Fort Worth residents vote in favor of Proposition 3 on May 7, the increased salaries will take effect Oct. 1, 2016, according to the task force's proposal.

Kayser said the salaries of the council members and the mayor come from Fort Worth's general fund.

"If this passes it will be wrapped into the fiscal year 2017 budget," said Kayser.

Mattie Parker, chief of staff for the mayor and city council of Fort Worth, said the budget will come to council in August. If Proposition 3 passes, the increased salaries will be planned for.

According to Fort Worth's fund statement, the largest percentage of the general fund comes from property taxes; however, Kayser said there will be no tax increase.

"The city manager has already said there will not be a tax increase this year for any reason," said Kayser.

When compensation for the council began in 1989,



THE 109

PROPOSITION 3 The The May 7 charter election will allow residences to vote on increasing the council's salaries.

council members were given \$75 for each regular council meeting but could not exceed \$3,900 a year, said Kayser.

In 2006, the council members' compensation was increased to their current salary, Kayser said.

Parker said the increased salary could result in a more diverse council.



Go online to stay current in all university news!

tcu360.com

We're All News, All the Time.

f t i

GRE/GMAT/LSAT Prep Classes and Free Strategy Sessions



Gear up for grad school.

Register Now!

TCU Extended Education (817) 257-7132 www.lifelong.tcu.edu

The New York Times

Edited by Will Shortz

1	2	3	4		5	6	7		8	9	10	11		
12					13				14		15			
16					17				18					
19					20						21			
		22	23			24				25	26			
27	28					29				30		31	32	
33					34				35		36			
37					38					39				
40					41					42		43		
44			45			46				47	48			
49										50				
			51		52	53			54	55				
56	57	58							59			60	61	62
63									64					
65									66					

sudoku

	7			3		5	2
			1			7	
				9	3		
8			2		5		
4							9
	6		8				4
	1	7					
	2			5			
5	3		6				4

directions:
Fill in the grid so that every 3x3 box, row, and column contains the digits 1 through 9 without repeating numbers.
This solution to this sudoku can be found at:
www.tcu360.com/ihavetocheat

solution from 3/31

1	9	7	5	6	2	8	4	3
6	3	2	1	4	8	5	7	9
5	8	4	3	9	7	1	6	2
8	2	3	9	5	6	7	1	4
7	1	9	2	8	4	6	3	5
4	6	5	7	1	3	2	9	8
2	7	6	8	3	9	4	5	1
9	4	1	6	2	5	3	8	7
3	5	8	4	7	1	9	2	6

What year was TCU established?

- a) 1870
- b) 1871
- c) 1875
- d) None of the above

tcu trivia answer

None of the above (d)

- ACROSS**
- 1 Police rounds
 - 5 Anne, par exemple: Abbr.
 - 8 Transfix
 - 12 Hail
 - 13 ___ jazz (fusion genre)
 - 15 America's Cup, for one
 - 16 Home to many stuffed animals
 - 19 Son-in-law of Muhammad
 - 20 Tar water, as seen in medieval medicine
 - 21 Cargo unit
 - 22 What the second letter of 17-Down stands for: Abbr.
 - 24 Bark up the wrong tree
 - 25 In times of yore
 - 27 Port city on the Red Sea
 - 29 Virtual city dweller
 - 30 Porto-Novo is its capital
 - 33 Having no legal force
 - 34 They may be stretches
 - 36 Ruler preceding the Year of the Four Emperors
 - 37 Trunk attachment?
- DOWN**
- 1 ___ mater
 - 2 Savage
 - 3 One added to the staff?
 - 4 Thomas Gray's "The Bard," e.g.
 - 5 "50% off" and "Sorry, we're closed"
 - 6 High-tech home gadget company
 - 7 Having the same pitch but written differently, in a score
 - 8 Fixed
 - 9 Dichromatic fad of the 1950s
 - 10 Aviation-related prefix
 - 11 ___ Mawr
 - 13 Ypsilanti sch. whose initials name a bird
 - 14 Big U.S. import
 - 17 Five-time Rose Bowl winner, for short
 - 18 Hunk
 - 23 Skillful
 - 26 Kind of pool
 - 27 Blacksmiths' needs
 - 28 "Stop that!"

- 31 Sci-fi classic featuring Dr. Susan Calvin
- 32 "Haven't heard a thing"
- 34 Pastoral setting
- 35 Map abbr. before 1991
- 41 Film director from whose work the word "paparazzi" is derived
- 42 Library penalty
- 45 Let stand in water again
- 48 Sale item indicator
- 52 Explanatory words
- 53 Suffer some tire damage
- 54 Wonderstruck
- 55 One adept with a deck
- 56 Zero
- 57 Personally speaking, in a text
- 58 Top of an outfit?
- 60 Neighbor of Mont.
- 61 Bring in
- 62 M.A. hopeful's hurdle

solution from 3/31

S	T	I	F	L	E		M	R	R	O	P	E	R		
P	O	G	O	E	D		W	A	Y	A	B	O	V	E	
L	O	U	N	G	E		A	U	N	T	I	E	E	M	
A	M	A	Z	O	N	V	I	N	E		E	T	N	A	
Y	E	N				I	T	A				I	S	P	
	Y	A	H	O	O	P	O	L	I	T	I	C	O		
		S	O	P	H		N	O	B	U	T	S			
			V	A	Y	A		A	I	R	S				
			H	E	R	O	I	N		Z	O	O	L		
			V	U	L	T	U	R	E	G	A	W	K	E	R
D	O	S				T	G	I				C	H	E	
I	L	K	S			C	R	A	S	H	S	I	T	E	S
S	A	I	L	B	O	A	T		E	A	S	E	U	P	
C	R	E	A	M	P	I	E		E	X	A	R	M	Y	
S	E	R	B	I	A	N			D	E	N	N	Y	S	

controversy

Legal pressure may be ahead for law denying service to LGBT

By Jeff Amy

ASSOCIATED PRESS

JACKSON, Miss. — The decision by Mississippi’s governor to sign a law that allows religious groups and some private businesses to deny services to gay and transgender people may have headed off gathering opposition in the state’s business community, but it could launch the state into litigation.

Saying he was protecting religious freedom, Republican Gov. Phil Bryant signed the bill Tuesday without hesitation or fanfare just hours after it cleared its final legislative obstacle Monday.

According to several supporters, Bryant said increasing pressure from businesses against the law illustrated Mississippi’s need for it.

“It shows why we need this bill, so people can not only believe what they believe, but act in accordance with their beliefs and not violate their conscience,” said Rep. Andy Gipson, R-Braxton, who helped shepherd the measure through the chamber.

Mississippi, with a slow-growing economy, no Fortune 500 company headquarters and little technology employment, could be less vulnerable than other states to major corporations exerting economic pressure against new laws that began emerging after a U.S. Supreme Court decision last summer that effectively legalized gay marriage nationwide.

Republican Georgia Gov. Nathan Deal vetoed a similar religious objections bill last week after big companies including Coca-Cola and Delta Air Lines expressed



ROGELIO V. SOLIS / ASSOCIATED PRESS

NO HATE Protesters call for Phil Bryant to veto the House Bill allowing discrimination against LGBT people.

vehement opposition, and national sports organizations hinted that they might hold their important events elsewhere. In North Carolina, where the Republican governor signed a law limiting bathroom options for transgender people and prohibiting local communities from enacting anti-discrimination ordinances, PayPal announced Tuesday that it has canceled a major expansion in the state.

It was unclear whether opponents would seriously push for repeal of the Mississippi law, which is slated to take effect July 1.

Reaction from two large business associations that had released statements opposing the bill was muted late Tuesday.

“The Mississippi Manufacturers Association’s position continues to reflect the concerns manufacturers have with this bill and its potential to conflict with their policies of diversity and inclusion. However, the MMA respects the wishes of the legislature and governor,” one trade group said.

Some individual companies were more pointed, though. San Francisco-based Levi Strauss & Co., which has a 350-employee distribution center in Canton, called for the bill’s repeal.

“We believe equality and nondiscrimination fosters talent and innovation,” the company announced on Twitter.

Opponents also said they’re considering lawsuits, a more traditional form of opposition in Mississippi for minority groups challenging state laws.

“There’s an urgency here because people feel under attack,” said Rob Hill, Mississippi director of the Human Rights Campaign, a gay rights group. “You can rest assured that we’re doing everything we can to make sure LGBTQ Mississippians don’t have to fear living in the state that is home to them and the state they love.”

Democratic state Attorney General Jim Hood said he’ll make “case-by-case” decisions on whether to defend the lawsuits, warning that the bill doesn’t override federal law or constitutional rights.

“If a person or government official violates a federal statute or constitutional provision, House Bill 1523 will not protect that official from a federal lawsuit or from potential personal liability under federal law,” Hood said in a statement.

cultural awareness

New website commemorating Fort Worth Latinos launches

By Emily Laff

COMMUNITY@THE109.ORG

The history of Latinos in Fort Worth is now getting recognition that some say is long overdue.

A new website, Latino Fort Worth, was revealed on TCU’s campus last Wednesday night that commemorates the history of Latinos in Fort Worth by sharing their stories on a digital platform.

Funded by a city grant, the site was the brainchild of the partnership between the City of Fort Worth Human Relations Commission and TCU faculty and students.

The website was launched in Betsy and Steve Palko Hall, where site contributors Dr. Max Krochmal and Moisés Acuña-Gurrola spoke, along with a panel of Latinos who took the time to share their stories on the site.

For older Latinos from Fort Worth, the site is a living memoir. It encapsulates their lives and memories by

documenting them in essays and video interviews that can all be accessed on the site for free.

Moisés Acuña-Gurrola, co-director and lead designer of Latino Fort Worth, said the site was meant to be multi dimensional, encompassing written stories, pictures and video narratives.

Acuña-Gurrola said he wanted to showcase the diversity of Fort Worth, but more importantly the diversity within the Latino community.

When he started delving into research for this project, Acuña-Gurrola realized that there was very little information to work with.

Latinos like Jaunita Salinas were appreciative that a site like this one would share a history that many people are unfamiliar with.

Salinas was one of forty Latinos who came to tell their stories during Hispanic Heritage Month of last year, when Dr. Max Krochmal and a team of graduate



MICHAEL SANCHEZ

NEW WEBSITE Latino Fort Worth was revealed on TCU’s campus last Wednesday.

students conducted interviews termed as “oral history collection days”, which are now available on the site.

She has made an effort to moderate parades celebrating Latino culture for the last 51 years in an effort to remind younger Latinos of their ancestors. The City of Fort Worth hosted a march and rally on April 2 in commemoration of César Chavez.

local masterpiece

THE END OF THE ROAD

Iconic 'Fort Worth Beer Can House' to be torn down



ALEX GAFFIGAN / THE109

TRASH OR TREASURE Luis Torres decorated his house with Milwaukee's Best Light and Miller Light cans. The house has stood at on the corner of Whitmore and Currie Street for over 20 years.

By Alex Gaffigan

COMMUNITY@THE109.COM

Driving through the 2900 block of Whitmore Street, it's hard to miss.

A home affectionately known by many as the "Fort Worth Beer Can House" has stood at the corner of Whitmore and Currie Street for more than 20 years.

The house aptly earned its nickname when homeowner Luis Torres decided to begin stringing his finished beer cans along the outside of his home.

Today, thousands of empty cans of Milwaukee's Best Light and Miller Light decorate his home and have served as a source of entertainment and bewilderment for anyone lucky enough to drive by.

"I used to sell the empty cans, but one day I just had the idea to hang them outside, and it's just kind of grown from there. It was just something for me to do," said Torres.

Soon, the only place he's ever called home will be demolished and become another empty lot like the countless ones surrounding his home. Torres's house is set for demolition at the beginning of this month.

"They're wanting to put up some condominiums over here. It's all part of that Trinity River

expansion project," said Torres.

Since 1943, Luis Torres has lived at 2901 Whitmore Street. He grew up in the Linwood neighborhood, and raised his family in his same childhood home.

Chris Stoker has worked at the Autobahn BMW dealership across the street from Torres's home for 23 years. He said he's looked out his window every day to catch a glimpse of the beer cans blowing in the wind. He came by to pick up a string of the cans before they're gone forever.

"I'm glad he's letting me take a few home as a souvenir of sorts. I'm going to hang these in my office," Stoker said.

Stoker, along with many others, said they are disappointed to Torres go. His house is set for demolition at the beginning of April.

"I had just gotten used to seeing the house, it's a piece of Fort Worth Art," Stoker said. "I'm really sad to hear it's gotta go."

With the development of West 7th and the Fort Worth Cultural District, Torres's home is prime real estate for the city and developers.

"They had been asking me to sell for years now. Eventually, I just didn't have much of a choice and they forced me out. It was just time for me to go," said Torres.

Torres will move to the River Oaks neighborhood, and although he says his new house is

nice, he's going to miss his house on Whitmore.

"I got a pretty good deal on my new house, but this here is my home. Nothing else ever really will be," said Torres.

Despite leaving his beer can masterpiece behind, Torres has plans to continue putting up beer cans at his new residence.

"Stay tuned for Beer Can House 2.0," he said. "It will definitely be back."



ALEX GAFFIGAN / THE109

TORN DOWN Torres's house is set for demolition at the beginning of this month.