

TORNADO
SPECIAL
SECTION

• It seemingly came out of nowhere – an F3 tornado ripping through the Preston Hollow neighborhood and significantly damaging the school. Responding to the tragic events of the night of Oct. 20, we interviewed members of the community at 10600 Preston Rd. to get their reactions and learn of community responses and how the community is moving forward. **Inside**



The remainder of Hicks Gym, totally destroyed Oct. 20.

REMARKER

ST. MARK'S SCHOOL OF TEXAS • DALLAS, TEXAS • VOLUME 66, NUMBER 2 • NOVEMBER 15, 2019

HEALTHY RELATIONSHIPS

Becoming good men

Thanks to a long-standing partnership, the school has been committed to producing good men – fathers, partners, community leaders – not just boys with brains.

Her image was on the cover of *Time* magazine at age 18. She used her unthinkable experiences to build a consulting brand which has gone a long way to educate the nation on healthy relationships. Now, Katie Koestner is helping shape the school's commitment to the complete education of its boys.

Combined with a new Health and Wellness focus and over a decade of work with the Character and Leadership Program, the school is taking a much more concentrated approach to educating boys – not only in the classroom – but also in becoming good fathers, partners, employees and community leaders in the future.

And now, the school is partnering with Koestner as it focuses even more acutely on developing – not only the whole boy– but a better man for the future, years beyond his time at 10600 Preston Road. **See pages 12-13**



Katie Koestner

5,000
schools visited
across the world

600+
events held by the
Take Back The Night
Foundation, of which
Koestner is
Executive Director

30
countries in which
she has consulted

Source: KatieKoestner.com

GROWING UP

Starting in the first grade, Marksmen like Westin Hjertstedt are constantly supplemented with information in and out of the classroom to fully develop their whole selves, preparing them for their older years on campus and out in the world.

STORY Sam Ahmed, Ishan Gupta, Aaron Thorne, Sid Vattamreddy **PHOTO** Charlie Rose

DON'T MISS

Focus magazine

• Consulting experts and professionals in the field, we take a look at the future of a Marksman's life in the 28-page magazine. **Inside**

Homecoming

• Although games were held at Hockaday and Greenhill, Lions and their dates were in full spirits during the weekend. **Page 14**

The SuperFan teachers

• Biology instructor Mark Adame and Suzanne and Patrick McGee Family Master Teacher Joe Milliet are the experts in sports fever. **Page 24**



Inside

ISSUES

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- How hard is it for a student to specialize in a single field with the stringent academic requirements in place at the school?

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- The stereotypes about home-schooled students are misguided, according to the Ardila brothers (senior Daniel and freshman Landon).

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- Sam Kieschnick, a Texas biology expert, has developed quite the relationship with environmental science teacher Dan Northcut.

10600

9 Filling in the shoes of legends

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- “I love a good challenge. Everything is problem solving when you break it down.” — Math Department Head Shane May

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- An artist’s process of applying to college is like no one else’s. What are the challenges a student hoping to pursue art in college faces in their unique journey?

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- While we are appreciative of the school’s efforts to educate students on consent, we feel that more measures can be taken to supplement our education.

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- College hockey is in senior Luke Adams’ plans. Now, he just has to get there.

23 For the sports junkie

- An in-depth look at SPC standings, Marksmen stats and upcoming games.

In brief

• **QUIZ BOWL RESULTS.** Senior Nicholas Cerny and juniors Ned Tagtmeier, Aayush Goodapaty and Han Zhang placed second at the Upper School Quiz Bowl team’s first tournament at Greenhill Sept. 28. The school’s “A-team” consisted of those four competitors. Eighth-graders Aditya Shivaswamy, Arna Lahoti, Kevin Lu and Ethan Bosita finished in second place at Middle School Quiz Bowl team’s tournament on campus Oct. 12.

• **VISITING COLLEGES.** Representatives from universities across the country will continue to come on campus throughout November to present information sessions about their respective schools to students. The representatives will also receive personal campus tours from student members of the Lion and Sword Society. Typically, representatives from three to four different colleges will visit each day.

• **ADMISSIONS EVENTS.** The Admission Office has scheduled a number of upcoming tours and events throughout the month of Nov. On Nov. 6, there will be a lower school visitation for prospective parents. Next, the Pride Preview took place Nov. 13. The Pride Preview is

GENERAL NEWS

a school-wide open house for both parents and children.

• **AQUARIUM CHANGES.** Over the summer, the fish tanks in the Winn Science Center were renovated along with the rest of the building. The three 260 gallon aquariums, which environmental science instructor Dan Northcut ’81 has maintained since 2002, each feature a different ecosystem, ranging from plants and animals from the North Texas area to a saltwater reef. Northcut hopes the diverse ecosystems, which are currently stabilizing, will be utilized for classroom instruction in the near future.

• **ROBOTICS UPDATE.** The school’s robotics team placed third in the Dallas B.E.S.T Robotics Tournament against 30 local high schools. Additionally, the team took home the “Most Robust Robot” award. With their finish, the team qualified for the regional competition, which will be held in Frisco Dec. 5-7. The members of the team will compete against 70 other qualifying teams from Texas, Oklahoma, New Mexico and Louisiana.

The team was led by co-presidents Faraz Asim and Meyer Zinn and seniors Rohit Vemuri, Pablo Arroyo and Andres Arroyo.

• **MUSICAL PERFORMANCE.** The Middle School choir performed an Evensong Nov. 3 in the chapel. The service started at 6:30 p.m., and there was no organ performance due to storm damage. The choir was accompanied by professional scholar singers who specialize in liturgical music. The service lasted about 45 minutes, including a piece by Gerald Near.

• **CERAMICS BATTLE.** Seniors William Holtby and John David McClain were chosen to submit their ceramics pieces to the Upper School Invitational Art Exhibit hosted by ESD. Their artwork will be on showcase from Oct. 15 to Nov. 20 at ESD with other students’ pieces from 15 private schools around the Metroplex. This is the first year this exhibition has been hosted, and there will be a reception on the last day from 5:30 to 7:30 p.m.

• **COFFEEHOUSE GALORE.** The first Coffeehouse of the year took place at Hockaday Oct. 5 with a theme of Haunted House. Notable acts included Seniors Eli Yancey and Will Mallick’s performances of “Dear Theodosia” from *Hamilton* and “5,000 Candles In the Wind” from *Parks and Recreation*. The next coffeehouse will take place Dec. 14 in

ARTS NEWS

the Black Box Theater, and its theme will be *Christmas: Brought to you by Tollhouse*.

• **PATH TO MANHOOD.** Seniors Colin Campbell and Christopher Wang presented the first Leadership Loop to Middle School students in Decherd Auditorium Sept. 25. The presentation covered topics including setting goals and developing healthy habits. The Leadership Loops reach out to Marksmen early on in their Middle School careers to better their experiences both on and off campus, and are a part of the Path to Manhood program, which includes their Path to Manhood portfolios introduced to them two years earlier. There will be more presentations throughout the rest of the year.

• **FALL PRODUCTION.** The school’s production of *1776*, which features Marksmen and several Hockaday students, was shown to the public for the first time Friday Nov. 1, with two more showings the following Saturday and Sunday. The musical revolves around the first Constitutional Congress and their signing of the declaration of independence. Tony Vincent Fine Arts Chair Marion Glorioso-Kirby and choirmaster Tinsley Silcox directed.

Young alumni spotlight

What are Marksmen up to in college?

Working with over 15 classmates, Philip Smart ’16 designed and constructed an escape room, called “Chapel Thrill Escapes,” on the campus of The University of North Carolina Chapel Hill (UNC).

“You have kids who come from all different background and can put their skills together, whether it’s engineering, artistic, or logical. It’s not something you get to see in the classroom.



PHILIP SMART '16



ESCAPING REALITY Philip Smart ’16 (left) holds the ceremonial scissors as UNC Chancellor Kevin Guskewicz speaks at the opening of the room Nov. 1. Updates from Smart and his team can be found on instagram (@chapelthrillescapes).

Quick facts

Important statistical updates around the community

26 Number of seniors deemed National Merit Semifinalists for their performance on the 2018 PSAT test.

Margin of victory for the Lions in their Homecoming game vs. Greenhill Oct. 25.

25

70 Thousands of dollars raised by the Senior Auction, which was held in Decherd Oct. 12.

Marksmen earned the rank of Eagle Scout Sept. 22. They were senior Mason Antes, junior Sam Morgan, and sophomores Pranay Sinkre and Ekansh Tambe.

4

Say what?

Comments overheard from all around campus



“Wait, there’s an ‘A’ in peanut?”

— Senior Alex Piccagli



“Can you play some Travis Scott?”

— English Department Head Michael Morris



“I used to think waffles had meat in them.

— Junior Gabe Bines



“I would be proud if my child started a black market.

— History instructor Bryan Boucher



“I want a gum-gum in my tum-tum.

— Senior Lincoln Dales



“You didn’t grow up like me, throwing rocks at cars.

— Coach Carl Jackson

“I’ve been here for six years, and each year it gets bigger. We keep finding things I think are important for you guys to know before you leave here.

— DR. BONNIE FLINT, BIOLOGY INSTRUCTOR, ON CONSENT EDUCATION STORY ON PAGES 12-13.

• **ALUMNI ATHLETES.** Many alumni have found success on their respective athletic fields this season. John Harbison 19 has played in all six of Sewanee University’s football games this season, racking up nine tackles on the defensive line. Daniel Cope ’17 has placed second, fifth and sixth in his last three cross country meets this year for Washington and Lee University. Also, Seun Omonije ’18 is in his second year playing for the Yale Bulldogs football team, who are 3-1 through four games so far.

• **MS SPORTS UPDATE.** The seventh grade football team is still undefeated with three wins, one tie and zero losses. Though the eighth grade team has won all of their SPC games in convincing fashion, it has one two-point loss to Grapevine Faith Christian School, giving the team a 5-1 record. The Middle School blue volleyball team has lost their first three games against tough competition, though they showed fight throughout. Middle School Gold has started the season with a three and five record.

• **COLLEGE BASKETBALL NEWS.** Senior Andrew Laczkowski verbally committed to the University of Pennsylvania Oct. 8. Laczkowski, a four-time member of the Lions varsity basketball team, has been a captain for the team for his junior and senior year.

In 2019, he was an all-conference player. Laczkowski joins seniors Billy Lockhart and Paxton Scott as athletes committed to Ivy League programs. The Quakers finished the 2018-2019 season first in the conference with an overall record of 24-9 and a conference record of 12-2. Their losses were to Yale University and Harvard University. The team ultimately qualified for the NCAA tournament, where they lost to the first-seeded Kansas University Jayhawks in the first round.

• **COLLEGE TENNIS.** On Oct. 15, senior Daniel Ardila verbally committed to Johns Hopkins University for tennis. After playing for a club program, Ardila and his younger brother, freshman

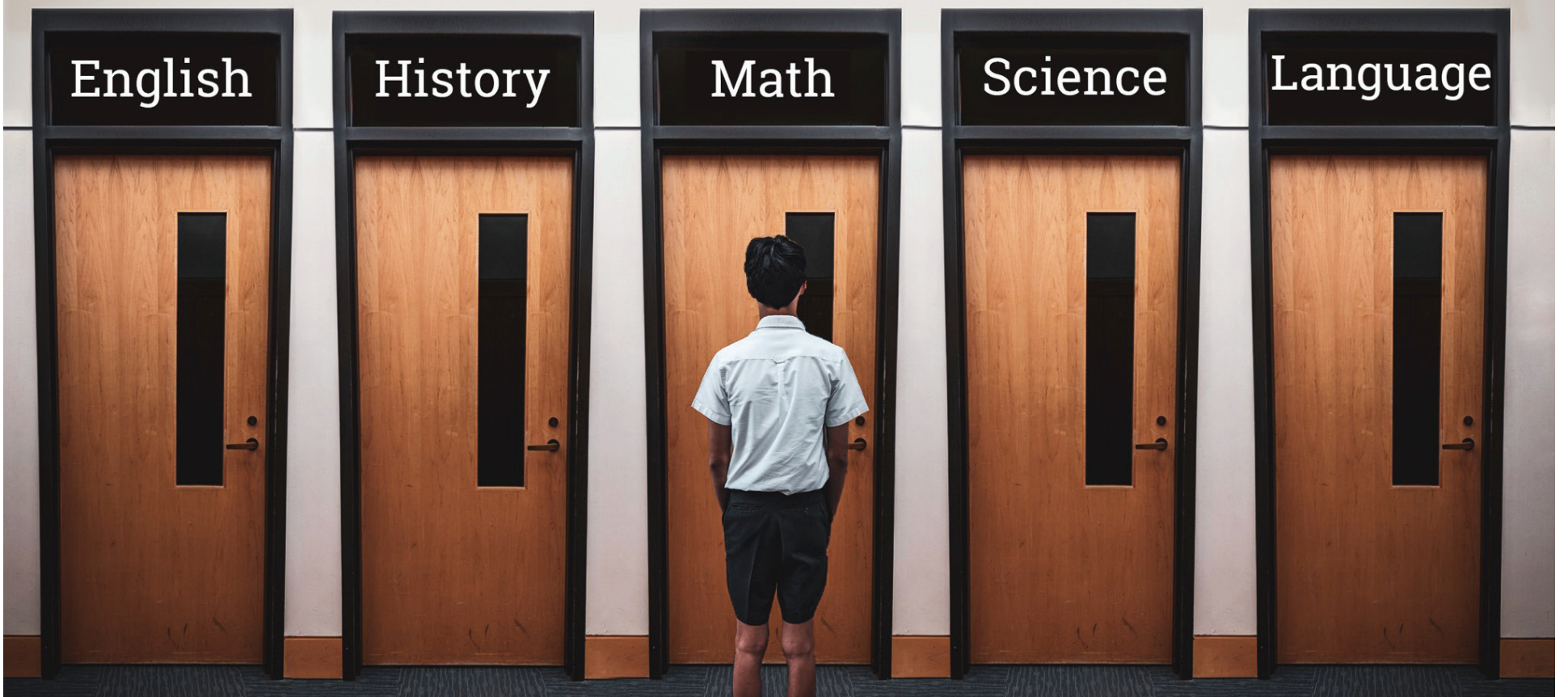
Landon Ardila, will play for the Lions this spring. The Blue Jays have won 13 consecutive Centennial Conference Championships. They have also advanced to the NCAA tournament for the fourteenth straight year.

• **ONE OF THE BEST IN TEXAS.** In an article released by prephoops.com Oct. 26, the Lions basketball team was ranked fifth best in the state in anticipation of the upcoming season. The article noted the depth of the team and the prowess of junior Harrison Ingram, who is ranked as a five-star small forward by multiple recruiting databases.

ACADEMICS

Specialization in the classroom

With certain classes required for graduation, Marksmen attempt to balance specializing in one area with taking a variety of classes across multiple disciplines.



DECISION TIME Faced with many combinations of classes he can take, a Marksman must choose whether or not to specialize, and if so, which subject he wants to specialize in.

I won't use half the stuff I'm learning in this class when I'm older.

It's difficult for someone to sit through a class they just don't find interesting, a class they're not passionate about. But the school's graduation requirements can make students take classes just to check a box rather than to pursue an interest.

Throughout an Upper Schooler's career, he must take four years of English; three years of social studies, science, mathematics and foreign language; one year of fine arts and an elective course.

It's important to have a strong and diverse academic foundation to build on throughout one's life. It's important to develop a work ethic through different intellectual avenues. It's important to have the tools to contribute to one's community.

But should students have more freedom to specialize their academic experience, or should they focus on being a well-rounded student?

...

According to English instructor Scott Gonzalez, specialization is a process that should be taken up at the college-level, while the high school years should be used for experimenting and trying new things.

"Perhaps our students would specialize more if given the opportunity," said Gonzalez, who previously served as the school's provost. "On a personal basis, I believe that would be unfortunate because then who knows what a student would not discover about himself if he focused on one subject. The world of ideas is vast, and there's plenty of time to narrow one's focus. One, in my estimation, cannot pursue a passion if he hasn't seen or experienced the possibilities."

During their junior and senior years at the school, Marksmen will often "double up" in a certain subject or interest. Having one subject to double up in can give students a taste of specialization. However, senior Meyer Zinn's interest in computer science has led him to a unique schedule consisting of an English class, a social studies class, two math classes and two science classes; he's doubling up in two subjects at the same time.

"The math classes seemed like a no brainer because of my interest in computer science," Zinn said. "Linear algebra [a focus in the advanced topics

class], despite its deceptive name, is basically the study of matrices and processing large amounts of data, both of which are fundamental to computer science."

The other math class he takes is AP calculus BC. Zinn also chose to pursue his love of physics by taking AP physics C and AP physics II. With two science classes also come two lab periods, leaving only three of Zinn's five free periods open weekly.

"Having multiple lab periods can make my schedule a bit tighter but it's definitely manageable," Zinn said. "My schedule is very busy, and finding time for extracurriculars and relaxation is difficult but not impossible. I get most of my homework done during class."

Different students have different motivations behind trying to specialize their academic experience. Some students specialize to show colleges an emphasis in a particular subject, while others specialize purely out of their own genuine interest. Of course, many students specialize for both reasons. Regardless of the reason, clubs and extracurriculars are another way for students to delve deeper into topics and ideas touched on in class — another avenue of specialization.

"Once you hit your junior year, you should be able to take a more specialized approach to your education," senior Billy Lockhart said. "We're old enough to know what interests us, and St. Mark's has the resources and faculty to provide us with specialized classes in areas we care about."

While specialization can have many benefits and allows students to pursue their interests, an argument can be made that specialization can narrow a student's focus too much — it can prevent a student from experiencing the wide variety of subjects available and possibly finding a new interest. Zinn says even with his math and physics-focused schedule, he has been able to maintain a diverse and balanced education.

"I would challenge the idea that I've lost breadth of curriculum," Zinn said. "The only class I dropped this year was Spanish. I consider myself a well-rounded student in terms of the classes I take."

With his interest in computer science, Zinn decided to pursue his passion by talking to others about attaining his unique schedule before his senior

year.

"I talked to my advisor and parents before deciding on my schedule," Zinn said. "I also consulted with the college counseling office and various teachers, and approval was pretty easy after all of that."

Even with such a focused schedule, Zinn believes balance is crucial for academic success; at a certain point, an academic workload can become too specialized. While a student can have a preference of what classes he wishes to take, it is ultimately up to the faculty and administration to guide the student in his selections and help him make the best choice for himself as it pertains to specialization.

"I don't think there should be any required classes," Zinn said. "But it is the responsibility of the academic advisor and student to seek out that balance."

Because of his interest in coding, Zinn wishes he could take more computer classes at a local college, like the University of Texas at Dallas, instead of taking extra physics classes, but doing so isn't an

option for him at this time.

That being said, taking college-level courses is still an option for Marksmen, according to Gonzalez.

"Students are welcomed to pursue courses at local community

colleges and universities," Gonzalez said. "However, St. Mark's doesn't award credit toward graduation for classes offered outside of our institution."

As Zinn looks ahead to college, he realizes the importance of preventing the college admissions process from influencing his course selections. For Zinn, taking extra difficult classes just to stand out to colleges is not the way to go.

"Many kids feel the pressure to take as many advanced classes as possible to increase their chances of admission to selective colleges instead of just taking classes that interest them," Zinn said. "We end up with people who are good at miserably trudging along, doing their work rather than enjoying their work."



Meyer Zinn
senior

By the numbers

18

classes required to graduate

24

classes during Upper School, leaving...

6

non-required classes

UT Austin to offer free tuition for low-income students

by **Toby Barrett**

The University of Texas at Austin established a \$160 million endowment fund last summer to aid low-income Texan families. All in-state undergraduates with an annual household income of \$65,000 or less will receive full tuition.

College Counselor Veronica Pulido, a member of the University of Texas Advisory Council, believes the university's step towards more affordable education is important.

"I do think it is a worthwhile adventure to continue on that mission of affordability and access to students that will potentially need different resources for admission," Pulido said.

Additionally, Pulido believes the endowment is critical to the university's aid to Texas citizens.

"I think that is an important place to be at, to say we are one of the flagship institutions of Texas. Let's make sure we are serving our own individuals at the school," Pulido said.

While Pulido believes in the university's push for admission not being limited by income, she does not think an endowment will have the same effect in all college communities. Many schools may have the capability to pay for tuition with an endowment without the capacity to sustain it.

"That's the issue with endowments," Pulido said. "You have 'x' amount of years to even have the initiative, to then sustain it and not just a one-year trial basis. Let's make sure the student is coming to our school, traditionally for four years at least. And then what happens after that? Is there still money available to sustain that for the next couple of years?"

According to Pulido, many colleges now have to reconsider their prices to appeal to more students.

"The financial piece is a huge component, and it does need to be considered," she said. "That's where individual institutions have to figure out, 'How do we attract students and what is the best opportunity with the price point being as it is?'"

The private school admission process is similar to college applications. Pulido sees the same sort of socioeconomic exclusivity within these admissions as well as within the communities.

"This is a huge priority for our school in particular and I do know that it is for other schools as well," Pulido said. "It's just a matter of making sure that the t's are crossed and the i's are dotted and to make sure they are bringing in sufficient amounts of individuals that will continue to elevate the institution."

CRITICAL SUPPORT

College counselors play a large role in helping students build their college portfolios.



Who will replace Casey Gendason? It's always difficult to find a replacement for a member of the school's staff, but replacing Gendason – who decided to leave last year but has agreed to continue working with members of the Class of 2020 – presents a significant challenge.

While the search for the next college counselor has spanned over several months already, the school has yet to find the right candidate.

So what does this mean for students and parents looking ahead towards their time with the college counseling office and the college process?

• • •

Director of College Counseling Veronica Pulido believes the school will be able to find a new counselor and smoothly integrate him or her into the college counseling office.

"First and foremost, families and students don't need to be concerned that things are going to just going to go awry," Pulido said. "We know this is an important piece of the puzzle, and we are going to do everything we can in terms of making sure the transition is easy."

Pulido hopes the school finds its new college counselor by January 2020, but finding one by the 2020 college counseling retreat in May is the goal. The retreat – attended by college counselors, junior and senior class sponsors – helps the counselor staff get to know about every rising senior as a unique student.



Veronica Pulido
College Counselor

"That's where we talk about each individual rising senior," Pulido said. "Obviously, if that new person is in place by then, they will have access to all that information about the rising seniors, so it's my hope that happens."

The search for the new administrator ties to the new counselor's ability to start right away with advising students. The school is looking for a candidate with a good amount of experience so he or she can transition smoothly and quickly into the school's college processes.

"Ideally, [we are looking for] someone who has five to seven years experience, potentially on the admission side, has worked in the admissions office or has worked at an independent school such as ours," Pulido said. "Ideally, it would be a person who has both, but if one or the other, that's what we're hoping for in terms of the experience. Not necessarily someone who is newer to the profession."

Apart from the experience the new counselor will bring in, Pulido also wants a counselor who genuinely cares for the students.

"I'm looking for someone who has that same level of enthusiasm to work with students," Pulido said, "but also the expertise and the ability to be flexible and adaptable and just jump right into our college counseling world."

Junior Aayan Khasgiwala is only beginning his college counseling journey, but he's already had experiences with the college counselors.

"St. Marks hasn't officially started college counseling for us yet because it happens later in junior year," Khasgiwala

said, "but since we are juniors, we know they're always available to help us. So I've met and a lot of my friends have met with them. I've met with Mrs. Pulido a few times."

Even though his time with the college counseling office hasn't officially started, Khasgiwala already notices the great impact the counselors have on students' college searches.

"They're [a] pretty big [influence on my college search]. I know a lot of it's up to me in choosing which college, but they're really big in helping narrow those choices down," Khasgiwala said. "And I think the best thing they do is they're realistic; they're not sugarcoating anything. At least Ms. Pulido, she doesn't sugarcoat anything, which really helps the process because it sets realistic goals for you to achieve."

Khasgiwala is aware of the stress, anxiety and pressure that comes with the college counseling process. But he also knows the college counselors will help to relieve a great amount of his angst with

COLLEGE COUNSELING

Searching for the new counselor

The school has been looking for a replacement for Casey Gendason in the College Counseling office for months. How will that search affect students?

their dedication to helping students.

"I've heard so many other people, graduated seniors and current seniors, talk so well, so highly about them," Khasgiwala said. "They're always on top of their stuff, and they'll stay here in the summers late at night. They're extremely dedicated, and they get rid of a lot of stress because they're so on top of their stuff; they make sure that we know what's going on."

Like Pulido, Khasgiwala also hopes the new college counselor will adapt to the uniqueness of the school and be able

“

They're extremely dedicated, and they get rid of a lot of stress because they're so on top of their stuff."

Aayan Khasgiwala

to relate to the students, in addition to using their experience to aid students in their college search.

"I know the college counselors like Mrs. Pulido definitely understand the

pressure that we all feel from parents, from school, from all sorts of people," Khasgiwala said, "and I just hope that the next person realizes we feel that and knows how to help us through that and help us deal with that in our sort of process."

STORY Axel Icazbalceta, Henry McElhaney **GRAPHIC** Cooper Cole



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HOMESCHOOLING

Location, location, location

Two home-schooled brothers debunk common myths about learning at home.

A lot of kids are home-schooled. In fact, the National Center for Educational Statistics recorded around 1.8 million school-age children being home-schooled in the United States in 2012.

While that is a large number, it makes up a mere three percent of all American students.

For the other 97 percent, home schooling is foreign and unfamiliar. Formerly home-schooled brothers senior Daniel and freshman Landon Ardila are two Marksmen who have experienced common generalizations about their time in home schooling.

Daniel first attended the school in sixth grade. His younger brother Landon is starting his first year at 10600 Preston Rd.

The two were home-schooled by their father until they decided to transition to more traditional methods of schooling.

And both prove homeschool stigma absolutely false.

Toby Barrett: When you tell people that you used to be home-schooled, how do they react?

Landon Ardila: People, when you tell them that, they wonder who our teacher was and if we just woke up and did school in pajamas.

Daniel Ardila: People in general don't have a negative view of home schooling, but sometimes they think it's not real school.

Robert Pou: How was your home-school experience different from that of other home-schoolers you know?

DA: Sometimes, [home-schooled kids] just aren't exposed to as many sports, so they can be really uncoordinated. Or they might be a little more socially awkward because they don't have as much

interaction with others. Luckily for [Landon and I], we have tennis, church and other places where we could interact with other people. Some people don't have that to the same degree, so it's just them, their parents and their siblings.

TB: Did you always know you would be leaving home-school for a traditional school?

DA: My dad always said that his ability to teach us kind of ran out at the max in sixth grade, and then he pushed it past eighth grade for Landon. But once we got into high school with labs and more advanced math, my dad couldn't really teach us that.

RP: How does the home-school learning environment differ from the learning environment here?

DA: It's really different because you do a lot of the work yourself. Since you don't have a teacher, and you don't have classmates to talk to you end up doing a lot of stuff out of the book. My dad who taught both of us, my sister and my older brother for a couple of years at a time, is a biology major but has a good understanding of math, enough to teach us. So you can have some conversations, but it's not at all like the classroom.

TB: How was the transition from home-school to St. Mark's academically speaking?

LA: It's tough. I would have at max 30 minutes of homework a day with home schooling. Now it's two and a half hours. I am not the most efficient person either, so I struggle to get everything done. But it's nothing more than I expected. It's pretty tough.

DA: I never got homework as a sixth grader. I came to St. Mark's and had a lot of homework, so that was



not a smooth transition at all. I also skipped a year in Spanish to be in my grade level, and I ended up failing that year of Spanish, in the first trimester at least. So, it was not smooth. It took a year or two to adjust.

RP: Did you have more time to play tennis when you were home-schooled?

DA: Actually, when I started home schooling about eight years ago, people didn't really home-school that much for sports. But now, there's a lot. We never really played tennis during the school day. We just played the same amount we play now that we're in school. But there're a lot of people that do play five hours a day and don't do as much school.

A SHARP CHANGE

The adjustment is often tough for students who transition from a home-schooled learning environment to the standards required of an educational institution.

STORY Toby Barrett, Robert Pou **PHOTO** Collin Katz

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Board hours requirement reduced

by **Austin Williams**
As of this year, the service hour requirement for Community Service Board members was reduced significantly from 60 hours to only 20. According to Director of Community Service Jorge Correa, the change was made in an effort to allow members more time for other organizations and activities.

“Most of the boys who we have on the board are very talented,” Correa said. “They’re pulled from other clubs and groups. One of the things we did last year was change the weekly meeting we have on Mondays to one or two per month, instead of having them every week.”

By scrapping mandatory meetings where there isn’t much to discuss, members now have more free time to get schoolwork done in preparation for weekends or whenever they can serve their communities.

“We can be flexible,” Correa said. “We can have a meeting when we need to have a meeting, rather than when the calendar says we need to have a meeting.”

Correa doesn’t think a change in the specific amount of required community service hours will make the board less qualified, but rather allow for some leniency so people interested in community service can develop their interest.

“We decided to take [the hour requirement] down slightly to 20 hours, which is more than everybody else, but at the same time doesn’t sound unreasonable in terms of the time that we’re asking them to commit to projects.”

This year’s Community Service Board co-chairs are seniors Toby Nwafor and Christopher Wang. They are assisted by Chief Operations Officer Jack Trahan and x2Vol Manager Tianming Xie.

LATE NIGHT
Caffeine can cause sleeping problems if consumed at the wrong time.



CAFFEINE

Getting the day started

Many Marksmen rely on caffeine to get through their day. Is this common habit hurting their health?

HARD-KNOCK-LIFE
According to the National Council on Strength & Fitness, 90% of middle and high school students reported getting less than eight hours of sleep per

It’s 7:45 a.m. as junior Beto Beveridge pulls into the parking lot on a gloomy Thursday morning. He wipes the sleep from his eyes, turns his car off and begins the trek towards his first class. But first, he has to make a quick pit-stop: caffeine.

For many Marksmen like Beveridge, coffee is a must to get through morning classes, since school starts so early and homework keeps them up so late. “I started drinking caffeine at the end of my freshman year,” Beveridge said. “Probably around the time I started noticing that I was having a really hard time getting through the mornings of school.”

It generally takes about 45 minutes for caffeine to absorb into the blood, but it

takes significantly longer for it to clear the system. For this reason, Beveridge generally avoids drinking coffee as the day goes on.

“I only drink it in the mornings,” Beveridge said. “I know that if I drink it in the afternoon then I’ll have issues sleeping that night, so I try to limit myself to exclusively the morning.”

Beveridge also commented on how he knows that sometimes adults don’t think kids should be drinking coffee and are quick to judge, but he doesn’t let that phase him too much.

“I would say for me, it’s the best option,” Beveridge said. “It cannot be good for me to consistently fall asleep during the first periods of school. Maybe having a bunch of caffeine isn’t great at my age, but it’s really what I do need. I don’t drink a ton of coffee every day, anyway.”

Beveridge admitted that there might be signs of a dependence on caffeine.

“I think I do feel different when I don’t drink it,” Beveridge said. “But it’s not too bad. So I guess I’m a little bit addicted to it. If a parent or teacher were to ask me about it, I would tell them that as far as I can tell, I’m doing perfectly fine with it and it’s really helpful to me.”

Even school nurse Julie Doerge enjoys a small cup of reduced-caffeine coffee when she wakes up, simply because it makes the task of being ready for the day at such an early hour much easier.

“When I got out of nursing school, I didn’t drink coffee,” Doerge said. “I just didn’t ever need it getting through school. Then when I went to work at the Children’s Hospital in Detroit, I was working a night shift. All of a sudden, I needed to stay awake.”

Doerge says that she personally doesn’t think of

coffee as an addiction. “When I got pregnant, I couldn’t have caffeine,” Doerge said. “I went for 10 months with no caffeine. I felt like I couldn’t have been too addicted if I could quit.”

When it comes to high school students drinking coffee, Doerge doesn’t think of it as an epidemic. Rather, she just sees it as a way for them to get through the school day.

“I think kids, especially younger kids, don’t like the taste of the coffee,” Doerge said. “They put a ton of sugar and milk in it, so then it’s not really coffee, it’s just a milk drink that has caffeine.”

Doerge agrees with Beveridge when it comes to timing. According to the U.S. Food and Drug Administration, it can take from four to six hours for the body to metabolize half of the consumed caffeine.

“You should really have a cut-off time because it stays with you on into the night and makes it harder to sleep,” Doerge said. “People do get jittery, have feelings of anxiety, panic, restlessness and difficulty sleeping.”

With energy drinks and other more concentrated forms of caffeine, Doerge definitely sees more risks and reasons to avoid them.

“It seems to me that we’ve become a very stimulant-orientated generation,” Doerge said. “When I was in college, instead of having a cup of coffee, kids would ask other kids to use their Ritalin (a drug used to treat ADHD). If you don’t need Ritalin, it may not act that way on you, and it’s probably just going to make your heart race and make you feel terrible.”

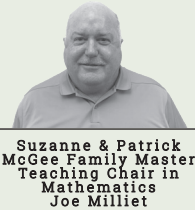
Death from caffeine is rare, but it is possible. Doerge found from observing kids and others that drink lots of coffee that the root of their interest is similar to other stimulants and depressants.

“The other part is that it’s just a little bit like alcohol,” Doerge said. “Why are kids so attracted to that? They see it growing up: ‘it’s what my parents do’. So they’re attracted to it, just like alcohol, and then we’ve got vaping. One of the final things is coffee.”

IN THEIR OWN WORDS

Is it fine for students to rely on caffeine to get through their day? Why or why not?

“I think it’s okay if students have a cup of coffee because it keeps them alert, but needing it to get through the day isn’t a good idea. Caffeine, like any other chemical, can be a type of drug if it’s used because you rely on it.”



“If you have to fill your coffee with cream to drink it, that means you aren’t drinking coffee for the taste and instead because you have a chemical dependency on caffeine.”



“Some kids have sleep issues and if caffeine helps them through that, great, but it is a drug and we don’t want caffeine addicts walking around here shaking. I think it’s a tool, but like anything it can be abused.”



“We’re tired a lot, and it’s a substitute for Red Bull and stuff like that. It’s not better than getting sleep, but we can’t always get enough sleep so caffeine can be a good thing to rely on.”



STORY Austin Williams, Cristian Pereira PHOTO Daniel Sanchez

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ENVIRONMENTAL SCIENCE

TEACHING NATURE Kieschnick helps a group of children identify a plant in the grasslands of Texas.

Master naturalist

Texas Parks and Wildlife Ranger Sam Kieschnick brings his expertise and experience to the AP environmental science class

More than 50,000 observations made, more than 6,000 distinct species observed. These aren't statistics from a fancy research laboratory or a huge scientific operation. Rather, from one man with a smartphone.

Urban biologist Sam Kieshnick is a master naturalist.

...

Sam Kieshinick is currently a Texas Parks and Wildlife Ranger, but he has always worked in the field of nature.

"I started working at Texas Parks and Wildlife about three years ago," Kieshnick said. "Before that, I was the nature education supervisor for the City of Mansfield. I helped with the land management and nature education classes specifically at Oliver Nature Park. Before my Mansfield job, I was a naturalist at the Fort Worth Nature Center, a science interpreter at the Fort Worth Museum of Science and History, a botanist at the Botanical Research Institute of Texas and an instructor at Weatherford College."

His work at Texas Parks and wildlife includes a wide range of activities, and not all are limited to working with wildlife.

"As an urban wildlife biologist, I tend to work more with people than I do with wildlife," Kieshnick said. "I meet with city councils, park boards, land managers and the general public on how to manage public lands and backyards for wildlife. I spend quite a bit of time emailing folks daily."

However, Kieshnick does spend time working hands-on in the field.

"I'm fortunate to get to do a

lot of 'site visits' at parks or at private lands," Kieshnick said.

It was during this work that Kieshnick first came into contact with St. Mark's.

"Mr. Northcut and I are both active members in the Texas Master Naturalists, a volunteer organization," Kieshnick said. "I noticed he was also getting quite active in posting iNaturalist observations as well."

Northcut recognized that Kieshnick could provide valuable insight into the world of urban

“

I'm pretty crazy about iNaturalist. I try to document at least one organism every day, and I try my best to identify observations made by other naturalists.

Sam Kieschnick

wildlife as well as the uses of iNaturalist.

"He then asked if I could present to his AP environmental science classes to tell them how an urban biologist like myself uses these observations," Kieschnick said. "I was hoping to teach the students about how these observations are used by land managers, biologists and fellow naturalists."

Kieschnick emphasizes the importance of iNaturalist observations to the scientific

community.

"Each and every observation provides a digital voucher of where an organism is in space and time," Kieshnick said. "It may not seem like important data by itself, but when combined with other observations from around the world, we can get a good idea of global

biodiversity and how it changes through time."

Observations from iNaturalist have been used recently in our own region.

"iNaturalist is regularly used by biologists and naturalists for distributions of species, changes in flower times [phenology], new introductions of species, in some cases, invasive species like the Emerald Ash Borer in Fort Worth, and even brand new species for science," Kieshnick said.

Kieshnick is an active contributor to iNaturalist and is currently ranked 11th in the world by number of observations taken.

"I'm pretty crazy about iNaturalist," Kieschnick said. "I try to document at least one organism every day, and I try my best to identify observations made by other naturalists. I also get to lead some bio blitzes – times where several naturalists and nature enthusiasts gather and document as many things as possible. This is a great way to engage the public and to show the land managers the active constituency of naturalists."



Sam Kieschnick
Texas Parks and Wildlife

53652
observations made

7168
species spotted

1
urban biologist

Source:
inaturalist.org

iNaturalist

WHAT
THE
TECH?



iNaturalist app lets anyone share the natural world

The iNaturalist app is a joint project between the California Academy of Sciences and the National Geographic Society. The app has over 750,000 users, and gives anyone with a smart-phone the ability to record observations of their surroundings, and get identifications for the observations nearly instantly.

Once the app's artificial intelligence has deduces an identification for an organism and the user has accepted it, they can then publish their finding for it to be verified by other iNaturalist users. When the observation has been agreed upon by several users, the information is labeled as research grade, and can be used by scientists and researchers worldwide.

iNaturalist shares findings with organizations like the Global Biodiversity Information Facility and others that use the data to construct a map of where certain life can be found. Whether you're looking to become a citizen scientist, or you just want to know what that plant in your backyard is, iNaturalist has something for you.

Northcut's AP environmental science class was introduced to the app at the beginning of the school year, and continues to use the app in and out of the classroom. Students in the class continue to make observations and contribute to the iNaturalist community daily.

SOURCE: INATURALIST.ORG

The Greenhouse man

Randy Johnson contracted to manage the Greenhouse for the 2019-20 school year to nurture and protect the wide variety of native and non-native plants there.



PLANT INSPECTION
Director of Environmental Studies Dan Northcut examines the various flora of one of the Greenhouse's rooms.

There's a plague in the greenhouse. It's not a virus, not a bacteria. It's thousands of parasitic insects, mealybugs. And it's Randy Johnson's job to stop them.

• • •

Johnson grew up in Mesquite where he always had a love of plants and the outdoors. He went on to earn his degree in Wildlife and Fishery Sciences from Texas A&M, and continued to work in the field after graduating.

"I was working as the director of horticulture at the Texas Discovery Gardens," Johnson said. "I managed an indoor plant collection just like we have here."

While working at this job, Johnson first came into contact with St. Mark's.

"After seeing a few of my talks at the Discovery Garden, Mr. [Dan] Northcut [Director of Environmental Studies] asked me to come give a talk to his advanced AP science class," Johnson said. "When they got the new science building, Mr. Northcut knew that I had experience managing a collection and he and Mr. Carron asked if I'd be willing to come down and help them manage this collection."

In addition to his work here, Johnson has his own botanical practice.

"I have a nursery in Forney, Texas where I grow and sell native plants."



Randy Johnson
Greenhouse Manager

Johnson said. "I hand collect all my seeds from prairie remnants, and grow native forbes [flowering plants], grasses, and woody plants mostly from North Texas, and people will come buy them."

Johnson also has experience working with schools and students in the Dallas community.

"One of the neatest things that I do is work with the Dallas Independent School District's school garden program," Johnson said. "We work mostly in

elementary schools, in association with the National Wildlife Federation who offer grants to the schools to put in pollinator gardens, and I go and advise the schools and give them direction on how to put the garden together. And then I sell them plants for their gardens as well."

Johnson enjoys when his work impacts the lives of students.

"I love seeing these elementary school kids when they go outside and get in a garden," Johnson said. "When they're outside in nature and you can really see them getting excited."

A new addition to the staff this year, Randy Johnson works as the greenhouse manager and has played a huge role in managing the plants in the new and improved Greenhouse, which was added this year along with the renovations to the science building.

"I come weekly," Johnson said. "I check to see if the plants need water, I check to see if there's any pests or diseases manifested in the plants."

“

If I was a parent and I knew that this teaching tool was available to my child, I would really appreciate what an asset it will be to them.

Randy Johnson

One such pest, a mealybug, recently infiltrated the greenhouse. But instead of using a traditional pesticide, Johnson plans to get rid of the insects another way.

"These plant collections are all managed organically," Johnson said. "We don't use any chemicals at all. What we've done is we found its natural predator. Mr. Northcut ordered a parasitoid wasp that we're going to introduce to the room to take care of that problem. It will go to the Mealybug and lay an egg either in or on it and when that egg hatches, the larvae will eat the bug. We can also physically wash these pests off with soapy water."

The Greenhouse is managed through these organic means to ensure that it is always safe for student use.

"When y'all go in there and work, we don't want any residual chemical in there that's going to hurt us," Johnson said.

Because it is managed with very few unnatural factors such as pesticides, the greenhouse represents a unique opportunity for study.

"This collection will function as an ecosystem if we get it right, and I think that's interesting for a student to be able to go in there and actually witness this," Johnson said.

Johnson has already worked in the greenhouse with AP environmental science classes, and has plans to expand its use to other classes.

"I hope all the teachers would come and see all the work we've done because we've really done a first class job," Johnson said.

Johnson hopes that students

recognize and take advantage of the many opportunities and facilities that the new greenhouse will provide.

"I'm around a lot of schools and to have a physical greenhouse and plant collection for the science department -- It's almost unheard of," Johnson said. "It's very rare to have this at your disposal. It's one thing to come in here and look at it in a book, but it's great when you can go in there and actually physically touch something."

Science Center renovated over Winter Break

by Han Zhang

The McDermott-Green Physical Science Center, a part of the St. Mark's campus since 1961, began renovations over the 2018-2019 winter break as part of the Science Center Project.

While the building retains much of its original structure, the interior was completely redesigned over the break.

"It was possible to keep most of the interior walls in place, which reduced cost," Science Department Chair Fletcher Carron said. "Because the new chemistry labs are located in Winn, the old chemistry labs in McDermott-Green were converted to physics labs, an 8th-grade science lab, and a conference room."

The designs of the classrooms in the McDermott-Green Science Center had to be updated to reflect their new uses, which meant adjusting the layout of each class to fit the needs of each subject.

"In all labs, we moved the teaching wall from one end of the room to the long side of the rectangle," Carron said, "allowing students working in lab a closer view of material displayed on the board or with the projector."

The renovations also included two new study spaces on the second floor, new placement of some faculty offices, new-and-improved common areas and a new faculty workroom.

"Much of the renovation was about taking a good building and modernizing its lab spaces to match the level in Winn while also matching the look and feel, so we didn't end up with the appearance of two distinct buildings from different eras," Carron said. "With McDermott-Green, everything was finished right on time."

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NEW CHALLENGE

Filling the shoes of campus legends

Following the departure of campus heroes J.T. Sutcliffe and Frank Jordan, two new faculty members, third grade instructor Erica Hershner and Math Department Chair Shane May, have legacies to live up to.

On May 31, the last day of the 2018-2019 school year, when teachers were handing out final grades, when students were itching to start their summer break, when newly crowned seniors were walking around in their blue shirts for the first time, retired Suzanne and Patrick McGee Family Master Teaching Chair J.T. Sutcliffe and third grade instructor Frank Jordan were packing their bags for the last time. Cleaning their white boards for the last time. Leaving campus as a teacher for the last time.

Leaving with them were 86 years of teaching experience at 10600 Preston Road, but what they left behind were two of the biggest voids in the school's history.

Now, with two new teachers hired to fill those positions, those 86 combined years of legendary instruction, how prepared are these newcomers to step into the shoes of legends and leave their own mark on the community?

...

First-year third grade instructor Erica Hershner saw taking over from Jordan as intimidating owing to his stature on campus, but she felt her hiring was a symbol of the natural change that takes place in the world.

"There was some pressure," Hershner said, "and I kind of felt a little bit like the kids were losing something because he had this status that people were excited to be with him. But at the same time, I felt like it was a good opportunity for them to get a fresh start. Everything in this world is changing. Education is changing, so sometimes it's a hard shift to make, but sometimes it's necessary."

Taking over the language arts curriculum for third grade, Hershner was pleasantly surprised by the liberty she had to teach what she deemed necessary.

"Coming from a public school where everything is spelled out for you and you are told exactly what to do and when to do it," Hershner said, "I figured there would be some sort of rigidity to what was expected of me, but I've had a ton of freedom to teach I want, do what I what I think I need to do."

With the freedom she was afforded in mind, Hershner was initially cautious in her lesson plans, but a couple of months in, she says she's settled in well and is starting to maximize the trust she's received.



A HELPING HAND Hershner guides her students through their holiday themed English worksheets.

"At the beginning, I was like, 'Okay, don't mess this up. These kids are really smart and I really need to give them what they need.' I didn't want to try something and have it be not what was expected or what they wanted," Hershner said, "so that was intimidating. I just did what I thought I needed to do, and now, it's been six weeks, so I kind of figured it out, found my stride a little bit."

In finding her stride, Hershner has applied her signature teaching style, featuring "authentic texts" like news articles rather than textbooks, which were Jordan's preference, and while this drastic of a change in teaching style could have been seen as unnecessary, Hershner says the feedback she's received has been incredibly encouraging.

"I feel so supported by my co-workers," Hershner said. "[Lower School Head] Sherri Darver has been just phenomenal and the parents, too, have reached out and been super welcoming, so it has been a very pleasant transition."

As she continues to acclimate to the environment, Hershner also hopes to enhance her curriculum by empowering her students to take charge of their learning through group work, something she sees as an unparalleled and irreplaceable source of learning for lower schoolers.

"I like [my students] having unique experiences," Hershner said. "They're buddies, and they work in groups because there's so much knowledge in the kids sitting next to you. I'm not the know it all of everything here, so I really like giving the kids a voice and letting them lead discussions and share what they think because their voices are so valid, especially here. Their experiences are really rich, and what they can add to the classroom is very valuable."

Math Department Chair Shane May doesn't see his new job as anything other than a challenge he will enjoy tackling during his time here.

"As a mathematician, I love problem solving," May said. "Being a good teacher, a good leader, a lot of it is problem solving. Everything is problem solving when you break it down."

Part of May's challenge is seemingly replacing a campus legend in Sutcliffe, but it's nothing May hasn't done before.

"In public school, there's an award for Teacher of the Year," May said, "and my high school calculus teacher — her name was Sally Langston — was Teacher of the Year not just for my school but for my area and not just for my area but the state of Texas and not just for the state of Texas but the United States. She was the National Teacher of the Year. She was a great teacher. The year she left, I came in, so I had to replace her, and that was so difficult. It was a challenge, and it was really intimidating because she was a legend."

Using this prior experience, May finds humor in his déjà vu, so he's confident in his ability to acclimate to his new role quickly and deal with the inherent pressures of the job.

"It's funny because you come here and Ms. Sutcliffe's retiring and Mr. Milliet is sliding over," May said, "so I'm kind of semi-replacing pieces of both of them. It's intimidating, and it's a lot of pressure. But I welcome the challenge. I like a good challenge."

To attack the challenge, May is looking forward to implementing his own teaching methods, and he's more than open to hearing his students reference techniques they learned in Sutcliffe's classes.

"That's normal, that's common and that's a good thing," May said. "I'm excited when they've learned something a different way than I would teach it because that's also a different way for me as a teacher. I always like to have two or three ways, and the only way you can do that is by listening."

And for someone who's now working with smaller classes than he was used to, less departmental faculty turnover and more curious students, May is looking forward to continuing the growth of the Mathematics Department.



"I expected the students to be bright and well-behaved and crave knowledge, and that's been the case so far," May said. "I expected to have a fantastic staff, and I've been really impressed with the Math Department. Here, the expectation is that the staff stays here a long time, and that's really exciting for me. Being able to meet and know your staff, you can build a great program when that's the case."

Part of building the great program May envisions will require time, and when it comes to dedication, May is in for the long haul because work is something he looks forward to.

"I've taught a long time," May said. "This is my 25th year, but it doesn't feel like 25 years. It feels like 12. I don't know how that works. Sometimes, you find people who are just looking to retire. Just in general and you can tell they're worn down. There might come a time when I'm worn down, but right now, I look forward to teaching. I look forward to my job. It's very enjoyable. It's what keeps me going."

And as long as work keeps him going, May promises to solve whatever problem faces him even if it's as big as conquering the pressure that comes with filling the void left behind by Sutcliffe. In fact, May hopes to replicate the impact Sutcliffe had on her peers and students by the time he leaves the school himself.

Because he sees the challenge, the void, the nostalgia as good things.

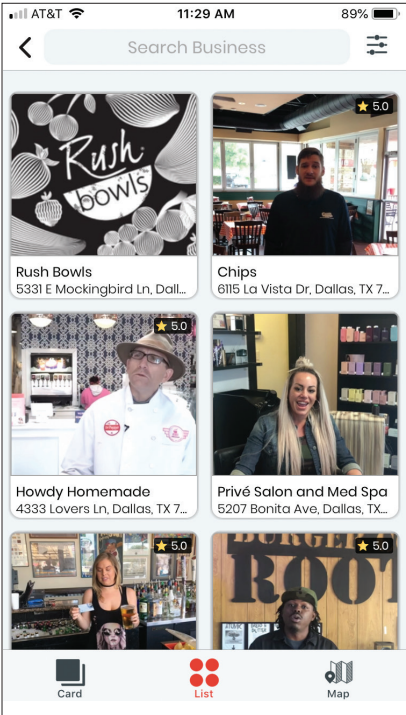
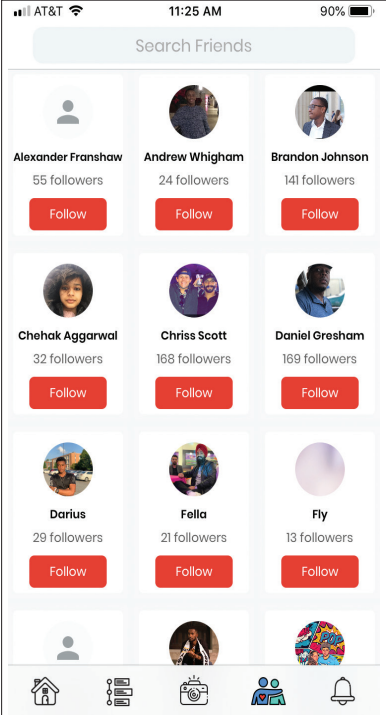
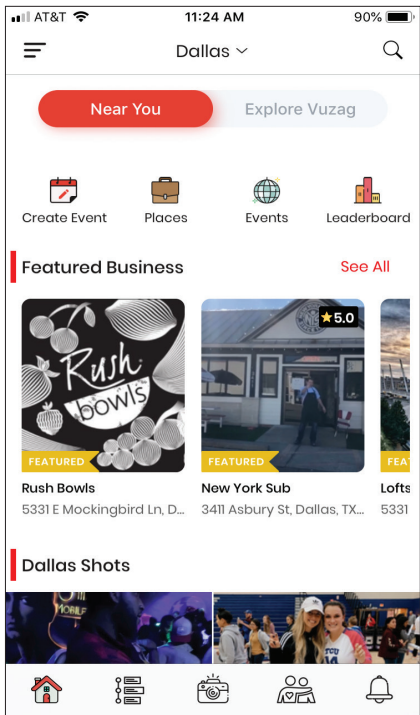
"It would be nice if the next person who came in was also a little bit apprehensive about having to replace me," May said. "Because if that was the case, that means I did a good job. They would know the guy before them was a good employee, a valued employee, delivered good instruction, liked by his peers or respected by his peers. Not just a, 'He was here before I got here. Nobody really knows him.' It'd be nice to keep the cycle going, and the same goes for when some of our other staff retire someday. I think that's the way it should be. You should miss those people. The guys coming in should be a little intimidated because those guys were great. I think that's a nice legacy to have."



OFFERING GUIDANCE May assists senior Aaron Weiser during his Calculus class.

A new type of Yelp

Jalen Lynch '16 helped create an app with his college football teammates meant to help local small business owners get their shops on the map.



SNEAK PEEK Images from Vuzag, Lynch's app, which allows users to find local small businesses, follow friends who can share their experiences and gain spending points towards potential discounts.

After a long, hard SMU football practice, Jalen Lynch '16 is getting changed in the locker room when Daniel Gresham, his teammate and friend, comes in with an idea.

He proposes an app that can help small businesses gain popularity, in addition to helping users find things to do, food to eat or places to stay in their city.

The more Lynch thought about it, the more it appealed to him.

Now, three years later, he is the head marketer for the app, Vuzag, nearing completion. Vuzag is now in the app store and ready to be used by people in SMU.

...

Most of Lynch's teammates laughed off the idea, but after practice, he went over and spoke with Gresham.

"I went and talked to [Gresham] afterwards," Lynch said. "And I told him that his idea really makes sense, and it was something I would want to help with."

For this reason, Lynch was immediately interested by the idea's potential to grow into a social staple.

"It is a way to socially search, connect friends and virtually visit any store or event in your city instantaneously," Lynch said. "That was kind of what grabbed my eye."

Lynch's job was not to help create and code the app but to spread the word to stores around SMU.

"My job started off going around to local businesses and asking them about Yelp and Google," Lynch said. "I would see what they liked or disliked about those platforms to try and get an idea of how we should construct our app."

He learned their app would appeal to small businesses more than Yelp. They

wanted to create something that would help these smaller stores or restaurants get on the map.

"Over time we played with and adjusted an app that we had into something that would really help these smaller stores," Lynch said.

In high school, Lynch did not take any coding courses or classes to help him in physically designing Vuzag, but he did learn important skills that helped in the development of the app.

"St. Mark's definitely helped me a lot," Lynch said. "Senior exhibitions helped me with my public speaking and communicating with people. I used the skills I learned when talking to the business owners. I can definitely say this was important when advertising the app."

During his freshman year at SMU, his commitment to the app was limited because football took up a lot of his time. But all of this changed during his sophomore year.

"During my sophomore year, right before the bowl game, I split my fibula, tore three ligaments and tore my tibia," Lynch said. "I was not able to play football for a while, and I spent a lot of time in the training room and not on the field."

Lynch began contemplating if he really wanted to continue playing or focus on something else.

"Obviously I still had a lot of passion



Jalen Lynch '16
Vuzag Business Relations
Director for SMU and Dallas

for football," Lynch said. "But being stuck on the sideline left me with two choices: I could either spend all my time recovering, or I could devote my time to helping this app become complete and successful."

His junior year, he quit football to fully invest himself into the development of Vuzag.

He went to places around SMU and Dallas and pitched the app and how useful it would be to them.

The app focuses on small local businesses and any event that people want to create. It allows the owners to have a short video to promote any specials or sales they are having. Users can also gain points that they can spend at the locations for discounts.

Vuzag can help the user find activities to do around the SMU, TCU and UT campuses. But they are looking to expand eventually throughout the entire country.

"I think the app is at the point where it's about to blow up," Lynch said. "It will not be long until it hits that exponential growth and becomes a main platform for people looking for something to do or something to eat."

The local Gazebo Burger near school is currently getting set up with Vuzag, so students can get points and discounts.

"We could definitely use a little more internet presence," the owner, Trevor, said. "And I think it would bring more general visibility."

Lynch has watched the development of Vuzag over the last few years.

"Developing the app has been like watching a baby grow," Lynch said. "It honestly has been incredible to see it become a reality. It has meant so much to me."



A glance at junior Jacob Bell's account, **@texas_aviation52**, where he posts his aviation photography. In his own words:



I took this photo October of last year at an airshow called Wings Over Dallas, which features World War 2 warcraft that have been restored to flying condition by the Commemorative Air Force, which is based in Dallas.

This was the first time I decided to take photos at these airshows. The top is an F6 Hellcat, and the bottom is a P63 King Cobra, and it didn't see any combat, but it's one of two in the world in flying condition. There are only a handful of the one on the top in the world.



This is the Super Guppy, and it was used by the NASA program in the sixties to transport sections of the [Apollo 11] rocket around the country. They took it, and they modified it to fit these huge pieces of Saturn 5 in it to transport it, and this one was at Pima Air and Space Museum in Arizona.



That's a B2 spirit, a stealth bomber—the stealth bomber you've probably seen before. It was at another airshow in Abilene, where a lot of long-range bombers are based. This specific one is actually from Whitman Airforce Base in Missouri, and it flew in just for this airshow.

It was created in the eighties as a stealth bomber—the idea was that it was nuclear-capable. It doesn't work well because the Russians figured out how to discover our technology, so at this point it's not in use.

STORY Eric Yoo, Darren Xi PHOTOS Courtesy Jalen Lynch

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3-STAR GENERAL

On the front lines

Lieutenant General Steve Shepro and his fifth-grade son Jack have traveled around the world as part of the three-star general's jobs in the Air Force and NATO.

When we talk about the Cold War, the Gulf War or the War on Terror, he can say he was there.

When we talk about any NATO decision in the last couple of decades, he can say he was there.

When we talk about almost anything related to American military action, he can say he was there.

From the front lines of wars to major Air Force Bases to the military coalitions of NATO, three-star Lieutenant General Steve Shepro has seen it all. So how does someone with such a prolific résumé end up in Dallas?

The answer: his son.

...

For Lt. Gen. Shepro, joining the military was not always the plan. In fact, the Los Angeles native only decided it was for him once he began his college search.

"When I was a junior in high school," Lt. Gen. Shepro said, "I was looking at college possibilities. Mainly, that was universities in California, and one day, I was walking through CalTech and I saw a poster of the US Air Force Academy. The demonstration team — The Thunderbirds — were flying overhead and my dad asked me if that was something I wanted to do."

After obtaining the requisite nominations and recommendations to attend the Air Force Academy, Shepro trained to become a fighter pilot, and along the way, he applied for the Olmsted Scholarship, allowing him to study abroad and open doors for his future.

"I got my masters degree in France," Lt. Gen. Shepro said. "While I was there, I was an intern with the European Parliament, and I got labeled with International Relations. That all lead to NATO."

As a councilor of NATO, Shepro served as the 21st Deputy Chairman of the Military Committee, meaning he was a key advisor in all military decisions. Along with preventing war as much as possible — "the bedrock of NATO" — part of Shepro's job, especially at the time he took over, was overseeing a shift in what was defined as war.

"Wars used to be very black and white," Lt. Gen. Shepro said. "Either you were fighting or you weren't fighting. Now, with cyber, with misinformation, with election interference, with economics, it's hard to define fighting anymore in the traditional sense. It's no longer a state thing. Everything we take for granted can be compromised in an instant. We depend on systems that are all interconnected. Imagine if that all gets upended. It would be chaos. How do you deter that? It's something we all have to think about."

In his fight against war, part of Shepro's job was to move around. Through his 21 assignments, he made 22 moves, many of which his son, fifth grader



Jack, also participated in.

And while it could have been easier to keep the family in one place, Lt. Gen. Shepro decided to move with his family when he could to promote a global perspective in his son.

"When we landed in Brussels, there was a Belgian-American school," Lt. Gen. Shepro said, "and instead of sending him to an international school where there are 70 different nations represented, we really wanted him to see his own country through other cultures. It just opens up the floodgates of understanding. It was neat because part of that role is being ambassadors for the US, so people look at us as examples of what America is. I think he did a really good job at that."

Jack, who was born on Andrews Air Force Base in Maryland, says he wasn't very excited about moving all the time, but he appreciates what constantly changing perspectives has done for him.

"It's a lot of work," Jack said. "You're unpacking and repacking. It's really hard transitioning over to Europe. It took me about six months, because at first, it was a really a strange place. I actually didn't want to go, but after six months I adapted. I made a lot of friends. I was happy there. I think I can understand cultures because instead of just studying cultures, I've seen all these famous cultures firsthand."

But after 35 years of moving, Lt. Gen. Shepro's next move wasn't dictated by his job. Instead, it was dictated by his son.

"It's all about St. Mark's," Lt. Gen. Shepro said. "Jack wanted to go to St. Mark's. We all thought we were going to Washington D.C. It seemed to be the logical next place. We were all ready to go. But he applied, and when we visited Dallas, we really liked it. So that's really why we're here. It was all Jack's initiative."

Now, having officially retired Nov. 1, Shepro is ready to compensate for lost time with his family, a desire stemming from an anecdote he remembers from his time in Afghanistan.

"When Jack began to learn how to speak," Lt. Gen. Shepro said, "I was in Afghanistan as the commander of one of our bases there. We would FaceTime every night, and the night before I was

coming back home, I said, 'Hey, Jack, can you believe next week, I'm going to be driving you to school?' And he said, 'How are you going to do that from an iPad?' He couldn't conceptualize me as a person. He only saw me in two dimensions. But for now, I'm really going to work on being a good father."

But the reason Lt. Gen. Shepro is looking forward to staying in Dallas is because he sees so many parallels between his job and his son's education.

"Everything that we've learned to be important is something we find at St. Mark's," Lt. Gen. Shepro said, "and that's why we appreciate being there. Ultimately, my whole career has been about defending values. That's why I enjoyed service. It's all about defending the things we hold to be precious. NATO was the same way. NATO's a values-based organization, so I think that's what's made my career rewarding and that's what makes St. Mark's so rewarding. It's based on values and what defines you and what you're willing to defend."



AMBASSADORS Lt. Gen. Shepro and his son Jack, representing the United States, pose with Scottish clan chiefs at the annual Royal International Air Tattoo, the world's largest military air show, in Edinburgh, Scotland.

KEEPING THE PEACE
Conversing with European Union Military Committee Chair Gen. Claudio Graziano (right), Lt. Gen. Steve Shepro (left) represents NATO at the United Nations.

600

flight
combat
hours

6

fluent
languages

21

assignments

Source:
af.mil

STORY Siddhartha Sinha, Will Pechersky **PHOTO** Courtesy Lt. Gen. Steve Shepro



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It was affordable, offered the majors she wanted and she got in. Katie Koestner started her college experience at William & Mary just like any other student, studying chemical engineering and Japanese. It was everything she wanted out of her college years. And, then she met him.

The perfect dreamy guy she thought never existed. The guy that spoke three languages fluently, sang and played soccer. After a couple of weeks, she said yes to a fancy French dinner date, nothing out of the ordinary, and she even invited him back to her place. The evening was going well, so why not?

But that invite spiraled.

...

Koestner had to be the one.

The one who let her name be known. The one who went public with her story and became the face of date rape, appearing on the cover of *Time* magazine on June 3, 1991 as the first woman to speak out nationally about date rape.

She was not going to be silenced.

expanding and important field.

"She's both giving us counsel on here are things to be thinking about and she's already shared a lot of information with us," Dini said. "We really desire and envision her as an ongoing partner with us where she can provide program and content for us."

In working with the school, Koestner says she honored to work with a place that is willing to learn to become better every single day, specifically in the realm of healthy relationships.

"I am pleased to see Mr. Dini is someone who is willing to put it on the line," Koestner said. "He is willing to delve into how to build the best man to lead the next generation of men with a more complete and honest acumen regarding their own health and wellness to become the best leaders of the next generation."

Having Koestner as another guiding factor in the development of every Marksman on campus, Dini understands how valuable her knowledge really is.

"It's part of the holistic approach to thinking about giving full attention to the comprehensive development of every Marksmen," Dini said. "She focuses a lot on the importance of healthy relationships, but her expertise and experience extends well beyond that."

Consent education doesn't just begin at the end of senior year. In fact, it's implemented at the beginning of Upper School in freshman biology. Biology instructor Dr. Bonnie Flint has seen many changes in the unit over a short timespan.

"I've been here for six years, and each year it gets bigger," Flint said. "We keep finding things I think are important for you guys to know before you leave here. And I'm not sure how much you hear it anywhere else, so I take the time to do it right."

The consent education study, part of the reproductive studies unit, has grown from a one-day to lecture to sometimes a four-day conversation.

"There are some people who don't take it seriously," Flint said, "because they don't understand consequences yet. But for the most part, most of my students are receptive to what I'm saying — more receptive than anything else I talk about all year."

Director of Physical and Experiential Education Mark Sullivan says the Health and Wellness Committee of Goals IV directly relates to Koestner's work at the school, and her work is one of the steps the school is taking to connect all the pieces of health and wellness together.

"What we hope to achieve is to have a broader, more definable understanding of what exactly it is that our goals and our hopes are for helping support all of our students in the areas of emotional and physical well being," Sullivan said.

Supplementing the work that Koestner and the Health and Wellness Committee deals with, Dini points to the work in the Character and Leadership Program that helps younger Marksmen to learn about the importance of relationships and other skills.

"A lot of the work there is oriented towards your understanding of the importance of caring for others and your ability to thrive as an individual is intimately tied to your ability to develop meaningful, caring relationships that are mutually supportive that revolve



Katie Koestner
Healthy relationship expert



'It's not what you achieve, but who you are that matters the most.'— HEADMASTER DAVID DINI

around providing care for other people," Dini said. "It starts with the principles and ideals that the boys are exposed to in Lower School."

While some outside the community see the school as only a transactional college preparatory school, the ideals that are put forth on campus centered around developing the whole boy first and foremost.

"It's not what you achieve, but who you are that matters the most," Dini said. "We're trying to send to a countercultural message in an external goods oriented world. Advancing the culture of the school in a way that continues to emphasize those ideals is fundamentally important and interwoven with everything related from healthy relationships to the way someone chooses to live their life."

While academics are a large focus at 10600 Preston Road, Ashton sees students' intellectual abilities as on an equal plane to their character development in the formation of the whole boy.

↑
A constant reminder

"The behaviors, the virtues, the habits that you guys develop to contribute to the needs around you, like caring for the person next you," Ashton said, I think all of that is critical context for the whole boy."

The idea of the education of a whole boy has snowballed over time. English instructor and former administrator Scott Gonzalez, who has taught at the school for 25 years, has seen the growth firsthand.

"That term 'whole boy' came into popular use probably around my third year," Gonzalez said. "Back then, it was just a phrase of what we would like to do with our education system, and of course since then that has evolved."

honors and awards koestner has received through her work

- Japan-US Senate Scholarship for Ambassador Youth Exchange Program Award Recipient, 1989
- COAR Respect Award, Campus Organized Against Rape, 1991
- Finalist, Harry S. Truman National Scholarship Award, 1993
- Young Feminist of the Year, National Organization for Women, 1994
- Inaugural Year of Sexual Assault Awareness Month Celebration, Keynote Trainer, United States Department of Defense, Certificate of Appreciation. March 2007
- First Army Sexual Harassment and Assault Prevention Award, First United States Army, Lieutenant General Thomas G. Miller Commanding, August 2010
- United States Secretary of the Air Force, Letter of Commendation and Appreciation. US Air Force Academy Keynote for Sexual Assault Awareness Month. April 15, 2015.

GOING PUBLIC After disclosing the events of her date on the William and Mary campus, Koestner was featured on the cover of *Time* magazine June 3, 1991.



"A real man is not what society tells us it is. Society makes it seem like you're not a real man unless you are strong as possible. We try to say no, a real man is someone who respects women and girls."

As a father of two daughters, Osborne emphasizes a man must always be respectful of a woman and make sure he has consent.

"The important thing to remember for all of us is don't ever put yourself in a situation of disrespecting a girl," Osborne said. "Don't be in a situation of taking advantage of or abusing a woman, whether a joke or serious."

...

Before the class of 2019 headed off to their respective colleges, Koestner spent time with the class to educate them on her story as well as give them context of what they should expect during their college years. For Landon Wood '19, Koestner's presentation was really eye-opening as he heard her story first-hand.

"I knew that sexual assault and harassment was a problem in colleges and around the nation but hearing her firsthand account really gave it life," Wood said. "I still remember her talking to us to this day. She was holding back tears trying to tell us what was going on."

Wood sees how important consent education is, and he appreciates the school's efforts to prepare students for the next stage in life.

"Things can get a little blurred in the kind of environments that you find yourself at college," Wood said. "St. Mark's is trying to prepare us for that. They're doing their best to educate us on what we're going to encounter and how we can go about doing things the right way."

As well as having Koestner to contribute to the values of healthy relationships that the school teaches, the Path to Manhood statue, a centerpiece of the whole school is a constant reminder of Marksmen from grades one through 12 to pay attention to its key values.

"It speaks fundamentally to who we are as a school and what we value," Dini said. "You're part of this larger narrative. We have that same responsibility to look out over the horizon long after we're going to all be gone and put in place some things that will make the school better."



David Dini
Eugene McDermott
Headmaster

As this larger narrative continues to shape the way the school and campus will be like, Dini is grateful for the focus on the 'why' of the school and the ways the school can improve in every part.

"There is an evergreen commitment to improvement from the Character and Leadership program to the health and wellness initiative that contribute directly to the kind of graduates that walk across the stage every May," Dini said. "That's part of the magic of this place because there's a lot of focus on why we're doing what we're doing. When you go out into the world today as a Marksmen, everything you do reflects back on the school, positive and negative. We recognize that we're not perfect; that is why we are constantly striving for improvement."

In a world where the definition of a healthy relationship is changing rapidly, Koestner defines a healthy relationship as equal and hopes this definition is emphasized in the future.

"Healthy means we equally have a say in what goes on in our relationship," Koestner said. "Equality includes gratification, the time we spend with each other, how we complement each other, what we do for each other and what we appreciate about each other. Healthy means intellectual partnership—we both feel like we are able to challenge and add to our partner's intellectual growth and development."



Erin Rehel
Education Advisory Board

Education Advisory Board's influence on campus

EAB has worked with K-12 public and private schools and universities for 15 years.

"Each year we take on a variety or research topics that are dictated by our members," EAB practice manager Dr. Erin Rehel said. "For the independent school executive form, which St. Mark's is a part of, the heads of the school get to vote every year on what are the biggest challenges schools are facing."

Previously, EAB has researched both academic leadership and the impact of politics on campus environments following recent elections. After they complete a study, each school's administration chooses if it will use the research to advance the community in some way.

"[Schools] figure out what they want to do from our service model," Rehel said. "We have

Recently, the school contracted the Education Advisory Board (EAB) as a way to bring in outside research on possible programs that could benefit students' overall growth.

an account management team that will help if they need someone to come on campus and do a workshop. We have a bunch of tools and resources that go along with our research to help figure out implementation."

In January, Rehel visited campus to present on financial aid as a strategic tool. Although EAB has only worked with independent high schools since 2016, they already advise up to 110 private schools. The EAB contracts only last three years, but schools can continue renewing them for larger amounts of time.

"We always continue to produce research on those big topics that schools are struggling with," Rehel said. "Our hope is that St. Mark's continues this partnership, and so far I think we'll have great success with that."

implementation of goals IV

Students & Learning

Provide an excellent academic program that includes comprehensive character and leadership education, and foster an environment that promotes the healthy development of boys.



Middle School Assistant Head Jason Lange engages his students.

A Continue to enhance the School's curriculum and develop innovative programs that challenge each boy to realize his fullest potential.

- 1 → Conduct a comprehensive review of the school's academic program.
- 2 → Expand the computer science curriculum in scope and sequence.
- 3 → Identify and develop opportunities for learning beyond the St. Mark's campus, including cooperative relationships with other institutions, online learning platforms, outdoor education, and expanded domestic and international student travel.

- 4 → Review co-curricular programs regularly, including Athletics and Fine Arts, to enhance the experience of every student.
- 5 → Develop a more comprehensive health education curriculum in scope and sequence.
- 6 → Review the Chapel program regularly to support the spiritual development and education of every student.

B Further develop and expand character and leadership education.

- 1 → Formalize character and leadership curriculum for grades one through twelve.
- 2 → Identify specific character and leadership education objectives for each grade level.
- 3 → Expand faculty and staff training specific to character and leadership education.
- 4 → Communicate the character and leadership education program's purpose, vocabulary, and objectives, and explore opportunities for engagement with alumni and parents.
- 5 → Host a national symposium on character and leadership education within five years.
- 6 → Define metrics that measure the progress of the character and leadership program.

PHOTO COURTESY ST. MARK'S

EDITOR'S NOTE
For more about the school's policy on consent education, read the editorial on page 18.

HOMEcoming

Let the good times roll

After a tornado interrupted many lives, students enjoyed a festive weekend Oct. 25-26 celebrating Homecoming, Disco Fever style

BEAST MODE Weaving through the defense, senior captain Anthony Andrews leads the Lions in their Homecoming football game at Greenhill. The Lions defeated the Hornets 25-0, marking the second consecutive shutout the Lions have pitched against their rivals.



LINED UP
Seniors Paxton Scott, Anthony Andrews, Kasen Roberson, Ryan McCord and Carr Urschel (left to right) stand for the national anthem before the game against the Hornets.



CLEAN SHEET Corraling the defense, senior Taylor Hopkin tackles the Greenhill running back on first down. The Lions defense limited the Hornets to under 100 total yards for the night.

HOME-COMING HOSTS
Following the tornado, Hockaday opened up their gym to the Lions volleyball team for their homecoming game. Despite lacking a home advantage, the student section was buzzing with spirit.



CLOSING TIME
Awaiting victory, Lion fans cheer on the volleyball team with one more point needed to defeat Greenhill. The team was successful, defeating the Hornets 3-0.



DISCO FEVER. Hands in the air, seniors in the mosh pit had the time of their lives at their final homecoming. This year's dance took place at the House of Blues in downtown Dallas.

PHOTOS Evan Lai, Owen Simon, Ekansh Tambe, Evan McGowan



WILD NIGHT Umer Nadir '15—popularly known as 'DJ Umer'—mixes the music at the dance. Nadir has been Homecoming DJ every year since the middle of the decade.

KING & QUEEN
Homecoming king and queen Kasen Roberson and Ellie Estes dance together after hearing the results.



FINE ARTS UNIVERSITIES

On stage, for real

Whether in performing or visual arts, students applying to college for artistic pursuits face an entirely different set of hurdles.

Auditions are over. The cast list comes out today. It's a chilly fall afternoon, and 15-year-old Will Mallick's going to be a baker in the Hockaday musical *Beauty and the Beast*.

He's elated — he got in, and he got a named role as a freshman. He's ready to carry on the family tradition of musical theatre, he's ready to commit himself for the coming years and he's ready to sing as he's been singing for years. But he's not ready to tell his basketball coach he won't be on the court this season. Or any season.

Four years later, auditions are beginning again, and Mallick wears his blue shirt. And as the curtains raise, so do the stakes. After nearly a dozen shows, Mallick's an artist now, and he's applying to college.

...

Whether a student has been playing piano since he was six or just picked up a paint brush their junior year, all arts applicants use SlideRoom, the common application for college art portfolios. While each school has its own specifications for additional information, each student gathers a collection of recorded performances, writings, paintings, sculptures or relevant work from their respective fine art.

"Let's say you're in the dramatic arts, for example: that may vary from your work as an actor to your work with helping building sets or building costumes or building props to musical performances and singing," Tony Vintcent Fine Arts Department Chair Marion Glorioso said. "If the nature of your work is dramatic performative work or being in the theater, a lot of schools want to look specifically at your acting work, but they also want to know that you have been invested in all aspects of the theater. And I would say the same can be true for visual arts as well. While you may typically lean towards, let's say, acrylic painting, you may have also tried your hand at some sculptural work and stuff that is 3D."

This necessity for variety may drive some students to pursue as many possible avenues as possible, but a lack of in-depth involvement and time can ultimately hurt the student.

"Because nowadays, for the college admission process, it is definitely breadth and depth versus a hundred activities and just scratching the surface," Director of College Counseling Veronica Pulido said. "So it really is important that the students start to explore early, decide what they like and then, obviously because of time

commitments, we want to make sure that the students are focused on their academics first, but it is truly important to then think about 'What else do I do when I'm not in class?'"

But the sheer quantity of work required by audition performances or pieces may overwhelm some students, so it's important for the student to discuss whether this process will benefit them.

"So whether it is ceramics or art," Pulido said. "The teacher is going to have a better sense of how the student stacks up against other applicants or just other people from St. Mark's, and then the teacher can help guide that student to say, 'Oh my goodness, you really need to submit an art portfolio' or 'You're more than

welcome to, and it probably will just be neutral.' But you need to then weigh if it's worth your time and effort to submit a portfolio."

After deciding on creating a portfolio, students must then think about the types of colleges they want to attend and the majors they hope to complete.

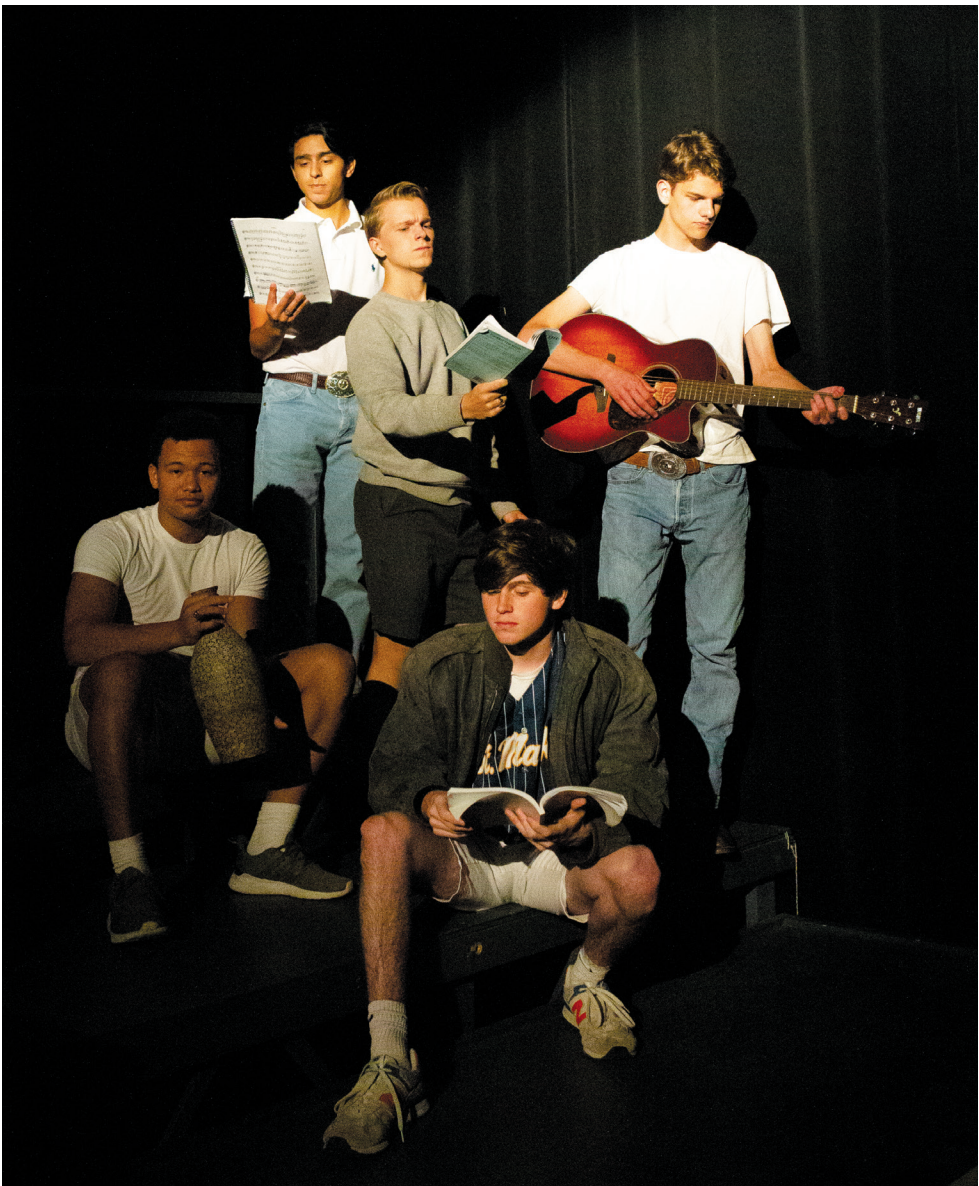
"There's also something within that student that when they start to think about their careers outside of St. Marks, they can't imagine a life where they don't do this [art]," Glorioso said. "So when they start looking at colleges, you go and visit a business school. That's great! There's some great business schools out there, there's some great schools that have a variety of programs, but then the students asks, 'Can I be in the theater and be a business major?' And at a lot of schools, you can't do that."

In the end, the work often pays off: submitting an art supplement helps provide a unique angle into a student's life that colleges hope to see, even if they are not planning on majoring in art.

Several key terms distinguish themselves early on for students applying to college for art in any capacity. The first and most prominent is the difference between a conservatory and an arts program at an otherwise academic institution.

Whereas conservatories such as the Juilliard School and Curtis Institute of Music dedicate their curricula solely to the study of arts — mainly — most universities have allocated schools and institutions of art. But while prestigious art institutions, such as New York University's Tisch School of the Arts, award Bachelor of Fine Arts (BFA) degrees as well as Bachelor of Arts (BA) degrees, conservatory-style educations are specialized such that they offer only BFAs.

"I'm applying to a couple BFAs [in acting], not for conservatories, though," senior Thomas Loose said. "The application process is a lot more rigorous. You need multiple audition pieces, more time, so it's overall more difficult. But the pool is much smaller because the BFA is for people who really want this one thing, and you could see that as not really wanting anything else. Coming from a place like St. Mark's, applying for a BFA is weird, because we're at a great academic and extracurricular school, but we never stress specialization, especially when it comes to art."



IN THE LIMELIGHT Seniors Odram Fitzgerald (left), Will Mallick (back left), Henry Exall (middle), Thomas Loose (front right) and Eli Yancey (right), each of whom are applying to colleges for fine arts, rely on high school portfolios in addition to test scores to prove themselves to universities.

But applicants coming from a culture like the school's often find the BA a more appealing option than the BFA. For senior Odram Fitzgerald, who is

applying to several colleges for ceramics, a BFA in his field is less feasible than a more general BA.

"Visual arts, especially ceramics, is a niche," Fitzgerald said. "A lot of schools don't offer majors in ceramics, so you get a BA in studio art. That's mostly what I'm doing, but a lot of the places I wanted to originally apply to were conservatory-style, which makes it really hard to double major. We get such a whole experience at St. Mark's, so that relative lack of diversity in something like a BFA program is hard to deal with."

The application process bears some similarities to the normal procedure, the Common App, for most applicants to arts colleges. To attend a college for arts, one must still be able to get into the college itself, though a strong arts application may boost one's chances. Still, factors like environment and opportunities hold just as true as the qualities of programs, whether in arts or not.

"For me, going to these cities and seeing the area around the college is incredibly important," senior Eli Yancey said. "Nashville specifically, where Belmont [University] is, with Vanderbilt right next to it, it's just a fantastic area. And, in terms of music, the integration to the music industry in Nashville, having access to recording studios and internships at record labels is very important for me."

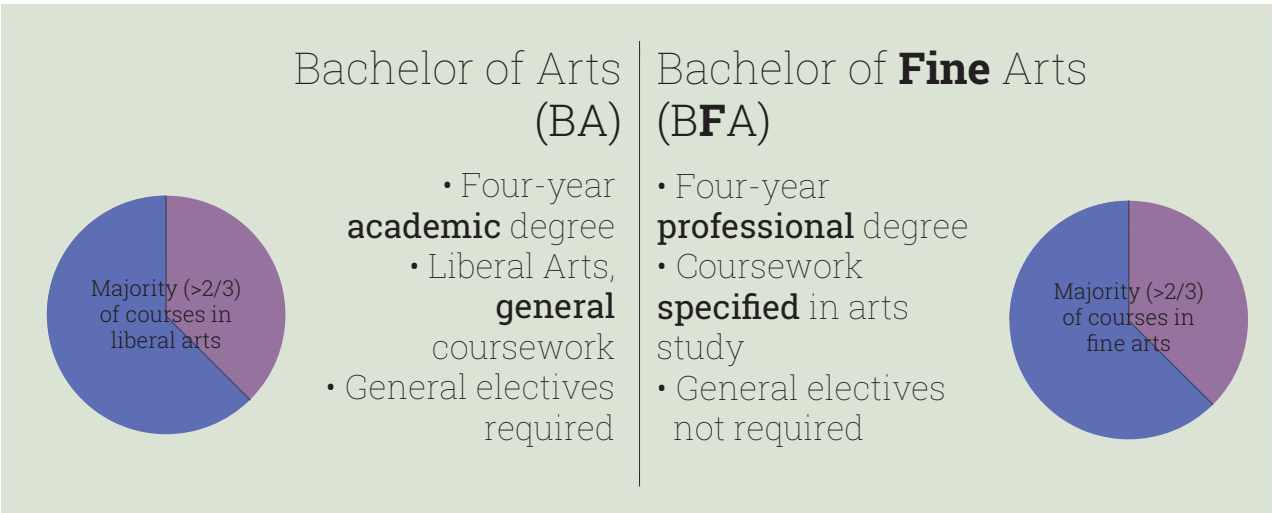
But for Mallick, a professional degree in whatever artistic pursuit helps, the act of making and performing art is more quintessential to the artistic experience than the objective study of it.

"Even considering the artistic side of it, a lot of people, including me, want an actual college experience," Mallick said. "If you go into college knowing you want to be an artist, one of the most important things to realize is that you don't need a degree in that specific area to do that in life. Doing art is what makes you an artist."

“

WHEN I WENT INTO THE MUSICAL MY FRESHMAN YEAR, I PLAYED THREE SPORTS AND LOVED THEM. MY HIGH SCHOOL CAREER AND FUTURE WOULD TURN OUT COMPLETELY DIFFERENT IF I HADN'T TRIED SOMETHING NEW.

— SENIOR WILL MALLICK



CARILLONNEUR

Manning the bell tower

Sophomore Daniel Uglunts serves as the school's carillonneur, ringing the familiar bells for special occasions across campus.

Axel Icazbalceta: How did you become the school's new carillonneur?

Daniel Uglunts: Two years ago when I was in eighth grade, Jake Horigome-Pigg ['18] was a senior, and he had played carillon for four years before. He was going to graduate, so a rising freshman had to take over. [Choirmaster Tinsley] Silcox and Jake mulled it over and finally decided on me. Jake asked me, and I said, "Yeah, of course." That's how it was. They just picked one of us.

AI: Did you know about it before you became the carillonneur?

DU: He told me a little bit. He mentioned, "What would you think of playing the carillon, maybe?" and I said "I don't know what I think, exactly." But he and Silcox eventually told me that was going to be my position for the next four years. He told me early on in my eighth grade year, so all my eighth grade year was basically spent practicing and learning from him, so that by the time I was a freshman I could completely take over.

AI: How was that learning process?

DU: It was a lot of trial and error. I watched him and then he said, "Okay, now you try," and then I kind of messed up on the real one, until I eventually got to a place where I was comfortable.

AI: A lot of carillon players have piano experience that help them learn. Did you have any piano experience to help you?

DU: My mom is a classical pianist, so I did have some experience coming from that background. I had taken theory lessons, so I knew how to play the piano, and the carillon isn't as different as people might think it is from a piano.

AI: Is playing the carillon easy for you by now?

DU: Yeah, essentially, and it's easier because it's only about two octaves that you can play. By now it's very easy. I often sight read some of the pieces that I play just because I have to play so many.

AI: What have you played on here so far?

DU: I've played every Evensong. I've played Commencement, I played graduation. If I'm asked to, I also can play for weddings, funerals, if that's necessary, any major events that happen in the

chapel or at St. Mark's. I also play for open houses. I play for basically anything that's a major school event that I'm asked to play at.

AI: Is there anything you're looking forward to that maybe you haven't played before?

DU: Every year I look forward to [graduation] a lot because we have a special program that the carillon plays and the Alma Mater, but there's a special program the carillon does play during every graduation.

AI: Two years ago, Jake was still here, and he said he played for the senior prank. Have you done anything like that?

DU: I have not. I have been asked preliminarily, not exactly, for the senior pranks, but I would be open to it in the future if a class wanted me to.

AI: What do you think are some common misconceptions about the instrument?

DU: The number one thing I get asked is, "Do you come up here between every single period and play the alma mater?" The answer is no. We have an automated system that does that for me. But other than that, the only way that the carillon is played comes from me personally.

AI: Is there anything you'd like the student body to know about the carillon?

DU: That it's a really cool gift and it's a very, very expensive instrument. It's one of the rarest instruments that we have. I think there are only about 20 something in the entire United States, so we're very fortunate to have it. And I'm very fortunate to be one of the few people that can



PRACTICE MAKES PERFECT After spending his eight grade year learning how to handle this unique instrument, sophomore Daniel Uglunts currently serves as the newest student carillonneur, performing everywhere from Evensong to graduation night.

say that they play the carillon. We should all be very happy and grateful that we have it as it's a wonderful piece of technology that doesn't go as appreciated as it should be.

AI: What's your favorite part about playing the carillon?

DU: My favorite part I would say about playing the carillon would just be hearing the fact that it resonates throughout the entirety of the campus and just knowing that I have that in my control.

INTERVIEW Axel Icazbalceta PHOTO Jerry Zhao

Headliners

Keep an eye out for these upcoming release, concert and drop dates.

VIDEO GAMES



	Release date
Pokemon Sword and Shield	Nov. 15
Star Wars Jedi: Fallen Order	Nov. 15
Shenmue III	Nov. 19

ALBUMS



	Drop date
Ocean, Lady Antebellum	Nov. 15
Who, The Who	Nov. 22
1999 [Remastered], Prince	Nov. 29

CONCERTS

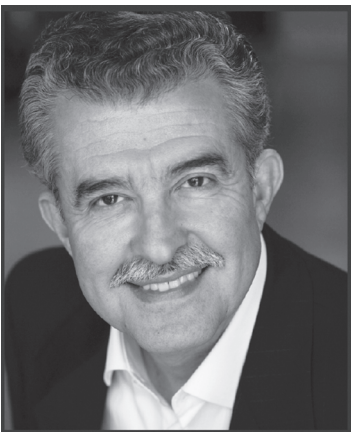


	Concert date
Willie Nelson	Nov. 15
Alessia Cara	Nov. 18
Jonas Brothers	Dec. 6

MOVIES



	Release date
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Seasonal selections

It's fall, and every business is trying to capitalize on the Fall-themed pumpkin spice market. While this influx of new items may increase business, do these limited-time flavors live up to the hype?

Pumpkin Spice Milkshake

Shake Shack

Too little for too much

Grade: **B-**



Normally, whenever I drink a milkshake, I find myself cringing at the sweetness after the first few sips. The pumpkin spice milkshake from Shake Shack is no exception.

The first eighth of the drink tastes great, but after a few minutes, the sugar levels are unbearable. The presence of ever-sweet whipped cream surely does not help with the overload of sugar.

You could find this pumpkin spice flavor anywhere else, in any other form, and likely for much less of a price than \$5.29; this Shake Shack shake is nothing special.

And the thickness of the shake makes it nearly impossible to drink for about five to 10 minutes.

But you would have to be crazy to want to drink this ice-cold sugar-fest while eating your burger, so the excessive thickness allows your drink to melt while you eat your burger and still not be too watery.

The one saving grace of this shake is the pistachios – the bits of which provide a salty flavor – contrasted to the sweetness of every other part of the drink. They also give another texture to the liquid brew.

After numerous great burgers from Shake Shack, I must say I am quite disappointed in their fall-themed shake.



Fat Straws

11810 Preston Road
Hours: 10 a.m. - 10 p.m.
(469) 547-2195

Pumpkin Spice Bubble Tea & Donut

Grade: **B**

Familiar taste, unfamiliar overtones

I see this issue a lot when places introduce seasonal items. They don't put any effort because they know that people will buy anything that says "pumpkin spice" even if their taste buds will make them hate themselves.

As for the quality of the tea, it's the same as their classic milk tea. Just good enough to go back and just sweet enough to make you feel bad about yourself after getting a large size.

The donut, I have to say, was pretty good. It was astonishingly unique, given that most of their flavors taste virtually the same, and that the "mochi" isn't really mochi at all.

If you don't like Fat Straws, please don't waste your time on average junk. If you do like Fat Straws, you're probably still wasting your time, but at least it'll be familiar.



Pumpkin Spice Latte

A disappointing addition to an impressive lineup

Grade: **B**

Drip Coffee Co.



Last year I reviewed Drip Coffee Co. for a coffee-shop themed Buzz and really liked it. The coffee was of high quality, at least on American standards, and the vast array of flavors made it a darn good choice for a morning or afternoon pick-me-up — disregarding the price that some of their coffee goes up to.

This year, I thought the fall-themed Buzz needed a latte review, and I wasn't going to do Starbucks. As much as I go there, I like to tell people that I hate it — it makes me feel more sophisticated. Plus, it's too cliché.

So I went to Drip. As always, the environment was cozy and the baristas were helpful. But I have to say, the coffee this time was disappointing.

Well, let me be clear. The coffee itself is still very good. It's rich and smooth, and unlike Starbucks, the espresso beans aren't over-roasted. But the pumpkin spice flavor was a little off.

It's an aggressive flavor, which hits you by surprised when it's juxtaposed with the smoothness of the coffee. I found myself separating the flavor of the pumpkin spice with the coffee's, and only enjoying the coffee part.

Like Fat Straws, I feel like Drip didn't put any effort into their Latte, and I assume it's for the same reasons — why invest in making a new product of quality when people will buy it anyway?

From a business standpoint, I get it. But as a consumer, I can't help but feel like my opinion of Drip has diminished.

Drip is still a good coffee-shop, though. Just go for something more classic, like a regular latte or the caramel version, both much better options.



Nothing Bundt Cakes

4264 Oak Lawn Avenue
Hours: 10 a.m. - 6 p.m.
(214) 485-6006

Pumpkin Spice Bundt Cake

A perfect blend of flavor and style

Grade: **A+**

I rarely eat bundt cakes, but when I tasted the pumpkin spice bundt cake from Nothing Bundt Cakes, I thought to myself, "Why don't I eat this more often?" As soon as I began eating the pastry, I was torn between experiencing more of the bliss and saving some for later.

There is little to say about the cake itself, the flavor is concocted perfectly, an excellent medium between bland and sweet is achieved. While some restaurants add a pumpkin spice seasonal offer just to ride the bandwagon, this bundt cake is clearly designed with thought and executed very well.

The cake is also very soft, taking a bite takes almost no effort, and the dessert slowly melts in your mouth while you savor the flavor.

It also comes with icing, and just the right amount of it. Almost all mouthfuls contain some of the sweetener, but the extra sugar doesn't detract from the pumpkin spice flavor nor does it make the taste unbearably sweet.

Plus, you can order the cake in many different sizes, ranging from four inches to ten inches in diameter, making it a perfect dessert for one or for twenty.

Overall, I found nothing wrong with the cake. It has the perfectly baked base that we know and love plus a well-crafter pumpkin-spice flavor.

After this pastry-eating experience, I will surely return to Nothing Bundt Cakes.

REVIEWS Cristian Pereira, Darren Xi
PHOTOS Cristian Pereira

Phoenix's new character 'checks all the boxes,' but some audiences may not approve

movie review

Joker

Grade: **A-**



Director
Todd Philips
Running time
2 hours, 2 minutes
Leaving theaters soon
REVIEW Cristian Pereira

It's not often I leave the theater not knowing how I feel about a movie. Sure, it usually takes about a day to fully flesh my opinion, but with Todd Philips's *Joker* I didn't even know where to start.

In *Joker*, a mentally disabled Arthur Fleck navigates through multiple issues, eventually caving in. There's a lot to take in as far as story's concerned, so I don't want to say much.

The movie stars Joaquin Phoenix as his own unique-but-not-too-unique — unlike a certain *Suicide Squad* character who shall remain nameless — version of the beloved DC character. It's an origin story set in a different universe than Zach Snyder's DCEU—rest in peace.

It's not a feel-good movie. For starters, it's rated R — and for good reason. It deals with serious topics like mental illness, suicide, and domestic abuse — and

it's got a substantial amount of violence. But the darker tone is very effective—and it sets this movie apart from other DC movies that fail to successfully work in a gloomy narrative. Maybe it's because Martin Scorsese had influence in it.

Joaquin Phoenix is absolutely phenomenal. I knew he was a good actor — especially after watching *Gladiator* and *Her* — but I had almost forgotten how good. He looks like he lost a good 50 pounds for this role, and his mannerisms, deliveries, and expressions are on point every second of this movie.

The narrative checks all the boxes — excellent character arc, tense moments, and creative storytelling decisions. The camera work is great, as well as the scoring, which incorporates original music by Hildur Guðnadóttir — an Icelandic composer most known for scoring *Chernobyl* — supplemented with

well-suited songs.

A few criticisms that hinder this film from masterpiece status: The dialogue is subpar, the pacing is off at times — especially at the very beginning — and a lot of side characters were generic and uninteresting.

I was also confused by the message. While I don't think it makes the film itself worse, I can understand why many disliked it, as it appeared to criticize aspects of society in controversial ways. While Phoenix does a good job with the script he's given, I can understand why it may not sit well with audiences.

Which leads me to my next point. I don't normally talk about audience reactions in my reviews, but for this movie I think it's a crucial aspect to understand because this movie is having a pretty big impact on moviegoers — for better

or for worse.

Joker is probably the most polarizing film of this year. First it gets an eight-minute-long standing ovation at its world premiere, then *Time* and *Wall Street Journal* give it a bad review. My best friend said he hated it — I think it has near-legendary status. Those who hate it hate it for different reasons, but a common theme I'm seeing is it glorifies violence and misrepresents mental illness, all of which are valid criticisms. Point is, while I loved the movie for all of its artistic merits, you may hate it.

I haven't met a person who thought it was an average movie — it's either loved or hated, and I think I fall into the "loved" bucket.

So if you're looking for an interesting — maybe even transformative way to kill two hours and ten minutes — *Joker*'s got you covered.

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EDITORIALS

Marksmen must continue to be educated on consent

As a staff, we are certainly appreciative of the measures taken to educate our student body about the recognition and importance of true consent in a relationship.

During biology, students spend multiple days on the topic, learning consent's definition and analyzing situations in which consent is relevant. Additionally, faculty across all departments help educate us through discussions and conversations pertaining to the topic of consent in the classroom.

Outside of the classroom, we're grateful for the open-handed support from faculty to talk about such matters privately by taking time out of their busy schedules to meet with students in person.

As further supplement for us, Katie Koestner, an activist against sexual assault, has delivered several presentations to our senior classes weeks before they leave the school.

More opportunities should be available

While these are effective and worthwhile endeavors, we feel strongly there are more opportunities to properly educate our students about consent in preparation for healthy relationships.

The biology unit could easily be expanded to even more days. In order to resonate more with the students, outside sources and guest lectures would allow people to share their own experiences. Discussions on real life circumstances would be

important as well, for students would be prepared and knowledgeable on what to do and how to avoid bad situations. We feel it is important that Marksmen learn the emotional and legal ramifications of dismissing consent from actual stories, not just learning the textbook definition of what consent means. All in all, we wholeheartedly trust the faculty, staff and administration to appropriately supplement us with education in the most effective ways possible.

Koestner is our best resource for teaching

We believe Koestner is our best resource to teach consent. We hope the administration will consider allowing her to deliver even more presentations to Marksmen of younger ages. In addition, hearing other speakers who are knowledgeable about the topics of consent would be incredibly beneficial. Our relationships can begin as early as eighth grade, and it is essential that the timing of our consent education doesn't come after relationships begin.

Ultimately, we want to be as prepared as possible to participate in healthy, consensual relationships. While there are already quality measures in place, we feel that more can be done.

With a topic as serious and important as this, we think more education can only be beneficial to the growth of our body and minds.

See cover story, pages 1, 12, 13

FURTHER OPTIONS ARE NEEDED • EDUCATION IS NECESSARY



Increasing class sizes

With larger student population, school facilities need to address change

For the past four years, administrators and the Admission Office have been steadily increasing the enrollment of the Upper School by increasing the amount of students in the freshman class.

About 10 students on average have been added to each class. The effort of the Admission Office to increase enrollment has successfully opened the school community to more qualified applicants, and we welcome the new students at 10600 Preston Road gladly.

However, because of the newly increased size of the Upper School, several areas of the school are going to need modifications in the future.

Parking lot is the main area of concern

With an increase in upper schoolers, there has been an increase in the number of student drivers. One only needs to look at the crowded student parking lot when school begins to know that something needs to be done about the increase of students.

There are about 297 enrolled sophomores and upperclassmen in Upper School, and there are only 179 parking spots. Although not every student who can drive does so, the fact that the number of students exceeds the number of parking spots by about 1.6 to 1 is concerning.

On top of this ratio, many parents of students park in student parking, again diminishing the number of available spaces. Although parents may be free to park in other places in the afternoon, in the morning, they should only park in visitor parking, which should have plenty of space to accommodate them.

Because of these reasons, when upper schoolers arrive at school, many find that it can become difficult to search for parking spaces. This is something that needs addressing in the future.

Decherd Hall may need attention

While parking is a more immediate concern, administrators should also take notice of Decherd Performance Hall, which could be problematic in the future.

Already many teachers are forced to sit on portable chairs on the side of the aisles, and many have to stand up near the entry way.

Because of these problems, administrators should be vigilant and proactive over the availability of space across campus as student population continues to grow in the future.

As class sizes continue to increase, we must remember that sometimes the school's facilities must grow as well.

ADMINISTRATORS MUST BE AWARE • PROACTIVENESS IS KEY

Students express opinions, viewpoints on Dallas’ most-talked about trial in decades

Amber Guyger’s trial in the killing of Botham Jean elicited extreme passion and emotion on both sides. She was ultimately found guilty of murder and sentenced to ten years in prison. ReMarker writers give their opinions on this case, which has drawn national and international attention:



‘The exchange...threw my emotions for a loop’

At 11:34 I re-read the news notification staring at me from my screen and sent a text to my parents. I never thought we would see the day.

From Sept. 23 to Oct. 2 the eyes of the nation and the world were on Dallas as the murder trial of Amber Guyger took place. Another instance of an Anglo law enforcement agent taking the life of an unarmed African-American.

When I found out the verdict the jury had returned was murder I was genuinely shocked. The first thing I did was send a text to my parents to find out if they had seen the news. I, along with many others, rejoiced that a court had finally said that a black life, no a black death, mattered. Although 10 years seemed like a light sentence to me, the sentence appeared to be a breakthrough. For a white police officer to be sentenced for the killing of an unarmed African-American, for the time being, gives the impression of a breakthrough, especially after all the heart-break with the results of other cases.

When the trial started, I wanted Guyger to receive a murder charge and the harshest possible sentencing under the law but was extremely skeptical that she would. Over the past couple of years, there have been so many cases of police getting away with the killings of unarmed black citizens. Trayvon Martin, Tamir Rice, and Willie McCoy will never see their families again while the men that killed them are at home with theirs. With that precedent, I believed the same would happen this time.

When I first heard of the shooting I honestly was taken aback. Unfortunately, I had gotten used to hearing about police shootings of African-Americans and was never shocked when it happened but in Botham-Jean’s own home? While eating ice cream? The shooting happening in Dallas made it so much more personal. I’ve driven by the very apartments the shooting occurred before and never would have imagined something like that would happen. Every time something like this happens it brings back up a lot of the fear and anger

I have when it comes to dealing with law enforcement. It happening in Dallas made it hit a lot closer to home.

Seeing black people, especially teen-age boys and young men, getting killed by police officers hurts and makes me fearful when I or my family members have to have interactions with law enforcement. This fear is especially strong because I’ve just received my permit and will begin to drive myself and my friends soon. I worry about being stopped by officers and that even if I do everything I have been told by my parents and law enforcement officers they will see my skin color and fear me. I’m terrified that their fear could turn a simple interaction into something worse. Something fatal. Not knowing how those interactions could possibly go puts a fear inside of me of the very people that pledge to protect me.

The exchange between Brandt Jean and Amber Guyger threw my emotions for a loop. The forgiveness aspect of it amazed me. The fact that he was able to forgive the person who took the life of his brother is amazing and something I would have a lot of trouble to do even with time. The Christian and humanistic side of me took that as an example of what I should aspire to be like. The black experience, pain, and history in me felt exasperated, however. A quote from Guyger’s defense attorney Toby Shook and similar sentiments are what angered me the most.

“I hope that people who were upset by the verdict will follow his example,” Shook said.

The Root journalist Anne Branigin summed up the way I feel better than I can myself.

“It [forgiveness] shouldn’t invalidate the value and necessity of black rage. It shouldn’t be taken as representative of what an entire race of people feels or ought to feel,” Branigin said.

Saying that people who were angry about the verdict should feel the same way as Brandt felt like an invalidation of what I really wanted. Justice.

Other staff members have their say...

A ‘milestone’ in prosecution

I think the Amber Guyger case, even with all its unorthodoxies, is a milestone in the prosecution of officers in police shootings. Rare are the police shooting cases where the police officer is put on trial, rarer still are the cases where the police officer is convicted.

Although I truly believe that Amber Guyger is genuinely regretful and sorry for her actions, she had to be punished in some way for taking a Botham Jean’s life. Although I completely understand the argument for harsher punishment, I believe that this 10-year sentence served sufficient justice, and the possible precedent this case set will have an interesting effect on future police shootings trials that must be observed carefully.

— Axel Icazbalceta, reporter

There would never be a victor

The situation sounded all too familiar at the start because it was police violence on a black victim. But what made it so different was how the two sides felt by the end of the trial.

Early on, it was clear there would never be a victor, and — in a world dividing itself more and more — the scenes in the aftermath of the sentencing were one of those increasingly rare moments of empathy and forgiveness. Regardless of your opinions about the case, the people or the verdict, that’s undeniable.

— Sid Sinha, 10600 editor

Forgiveness

While the Amber Guyger trial was an inspiring display of forgiveness and a huge step towards justice from police shootings, I still feel that 10 years for murder is too light a sentence for the gravity of her actions. Even though the trial symbolized a huge step towards justice, as many many police officers responsible for shootings are never prosecuted nor sentenced, her sentence does

not feel long enough. Compared to others guilty of murder, such as Tay K, who was convicted and sentenced to 55 years in prison as a result of crimes he committed at 16, the punishments are far too inconsistent.

— Jonathan Yin, reporter

Remarkable and graceful..’

American justice is based on the tenets outlined in the Declaration of Independence—the idea that all men are created equal. That includes equality under the eyes of the law.

This was a murder case—and the punishment for murder should be just about equally stringent, regardless of the perpetrator or confusion of the incident. Amber Guyger shot and killed an innocent man in his own home.

The personal forgiveness afforded to Guyger by members of the Jean family is remarkable and graceful and powerful—but the legal response should not be similarly lenient.

— Sam Goldfarb, senior editor-at-large

A certain feeling of sympathy

Outrage. That was my first reaction when I heard about what transpired in Botham Jean’s apartment on the night of Sep. 6, 2018. Despite my strong feelings, I could only barely imagine the pain, the anguish, the anger the family members of the victim were feeling.

I didn’t think I could begin to feel sorry for Amber Guyger, but watching her trial was so hard. Seeing her break down in court and realizing the full extent of her suffering brought out a certain feeling of sympathy. The trial made me question what right I had to judge this person, when the brother of the victim decided to forgive her in front of the whole world. I still believe the jury made the right decision, but the right decision isn’t always the easy decision.

— Sid Vattamreddy, managing editor

Around the Quad

Students and faculty answer our questions

What do you think about the efforts toward the impeachment of President Trump?



CARTOON James Shiao

If he did break laws then it's all right to do that, and there has to be a lot of decisions to make.

Rahul Banerjee Junior



I think the house has every right to do what they are doing right now.

David Fisher History instructor



Its finally time for I think where he does need to be responsible for some of the more egregious stuff he's done in office.

Jack McCutchan Senior



I think that there is something that needs to be addressed whether he's guilty or not.

Mark Adame Thomas S. Adams Master Teacher



I think they have a right to do that. I don't believe that is the thing we should be focusing on.

Alex Loftus Senior



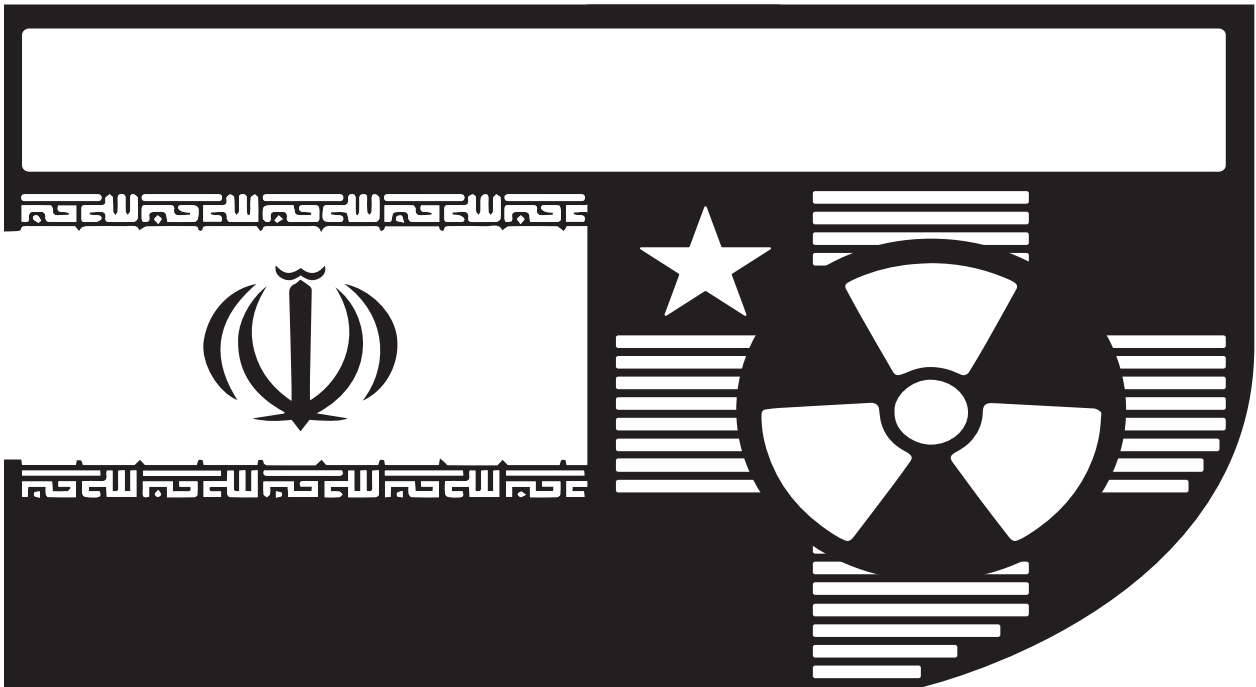
I think it makes sense that he should be impeached.

Odran Fitzgerald Senior



HEADS UP • THINGS YOU NEED TO KNOW

Trump’s renegotiation: The Iran Nuclear Deal and why you should care



What:

- The Joint Comprehensive Plan of Action (JCPOA) was the original nuclear deal made during the Obama administration to prevent Iran from building nuclear weapons for 10 years.
- The Trump administration withdrew from the original deal because they want Iran to stop building nukes permanently.
- The administration has imposed sanctions on the Iran government in order to pressure Iran enough to force them to renegotiate a better deal than the JCPOA.

When:

- July 14, 2015: The JCPOA agreement is formed between Iran and the permanent members of the United Nations Security Council plus the European Union.
- May 8, 2018: Trump announces its withdrawal from the JCPOA.
- May 12, 2019: Four commercial ships were attacked near the Gulf of Oman. Iran is suspected to have done this, presumably in response to the US sanctions.

Why it matters:

- The US imposed sanctions on Iran have raised oil prices around the world.
- With the US sanctions, the US could possibly be allowing China to step into the Middle East and project their power their in place of the US’s.
- Iran may continue to respond to the US through attacking oil refineries, ships, tankers and may provoke further retaliation from Iran.

SOURCES New York Times, David Fisher ARTWORK Jamie Mahowald

Those pesky blue shells

Beyond the sun setting each day, or Michael Jordan being better at basketball than LeBron James, I don’t claim to be certain about too many things. But one of them is that the Mach Bike is easily the preeminent vehicle in Mario Kart Wii, a game which, on its own pedestal of certainty in my mind, is the best videogame ever created. Just like any good game, Mario Kart Wii has challenges and incentives. Nobody wakes up one day having mastered Rainbow Road or having unlocked Mirror mode for all eight grand prix. It takes work, and a lot of it. It takes taping the remote for more grip on the turns. It takes memorizing the timing of the drift to get that added boost. It takes an understanding of when to try and knock Funky Kong into the adjacent pool of bubbling lava, and when to gracefully navigate around him. Just like any good game, Mario Kart Wii is unpredictable. One second, I’m in first place, carefully determining the prime location to drop the triad of bananas I have waiting for my opponents. The next, the blue shell I’ve come to hate so much collides with my smooth-riding bike in a violent collision. Then, a red saucer sneaks up and trips me up again. Finally, a blistering cannon comes through and plunges me deep into the depths of Wario’s rickety gold mine.



Colin Campbell
Managing editor

Now I’m in last place, eagerly waiting for a golden mushroom to save my race, and, in turn, my dignity. And, just like any good game, Mario Kart Wii brings people together. When my little sister, Susanna, hears the distinct race soundtracks radiate from the tv, she comes shuffling up the stairs. Just like that, I have someone to celebrate each victory with and someone to mourn with after crushing defeat. I play as Luigi, and she as Yoshi. Together, nothing can defeat us. Except for maybe those dang blue shells. Susanna is in her first year of high school. This means football games, spirit parties, homecoming and just about everything else that could make an older brother worried for his little sister. And, as she is in the midst of a new chapter of her life, I’m preparing myself for a new one in mine. Like one of those pesky blue shells, the realization that I have to leave her and the rest of my family next year came unwanted, disrupting what seemed to be going so peacefully and so well. But it doesn’t have to be that way. In Mario Kart, the setback makes victory that much sweeter. And now, each race with Yoshi by my side becomes even more special. Even if it gets cut short because, as I’ve come to find out, high school girls have places to be.

For Keerthi

I watch as a tiny-winged mosquito lands on my resting arm. In this frustrating and maddening moment, it is my most despised enemy. I keep watching as the winged predator slightly moves its head up and gets ready to bite. The pain I feel when my palm hits my forearm stings, but it’s nothing compared to my disappointment and annoyance as I once again hear the pesky little bzzzzzz of the mosquito flying around. “Hey, let’s go,” my dad motions. I pop up like a spring, ready to leave the hot, smelly, bug-infested village in India my mother had grown up in. My seven-year-old self drags my bright red Lightning McQueen suitcase behind me as we begin to line up for departure. Behind me, all of my relatives stand and wave goodbye, wishing us safe travels and reminding us to call them when we land. They’re all happy, thinking about the memories we have made in the past month together. All of them. All of them except for one. Except for my 14-year-old cousin Keerthi, who’s basically my older sister. She’s stuck in a hospital 45 minutes away from the airport, sick. But I don’t think about her. I don’t think about the special Indian candies she would save for me every time I visited. I don’t think about the time she woke my brother and me up at 11:30 on a muggy August night to sneak out of the house to get in line for special Independence Day samosas at the local food cart. I don’t think about her willingness to always play silly games with us and partake in our childish pranks. Instead, I’m thinking about what movies I’m going to watch in the two 10-hour flights home, first to London and then to Dallas. After all, why should I worry myself about Keerthi? Everyone is saying everything is going to be fine. My smiling uncle standing behind me, my caring aunt in the hospital, and the doctors, in their important blue hospital scrubs, all repeat the same hallowed phrase. Everything is going to be fine. My plan for the plane doesn’t last long. After two movies, I’m passed out. My parents have to take turns carrying me during our layover in London. But I’m wide awake as we land in Dallas and as we drive our midnight blue Honda Odyssey to our house in Irving. I’m wide awake at 2 a.m., dressed in blue Thomas the Train pajamas, when my parents receive the call with a +91 country code. My mom begins to cry, and my dad tries to console her. I don’t really understand what’s going on, so I keep playing with my LEGOs and beyblades. I’m sleepy as my mom, bleary-eyed and carrying a Kleenex box, drags me out of my bed to tell me the news the next afternoon. “Keerthi died,” is all she says. Suddenly, I’m awake. Those two simple yet meaningful words, “Keerthi died...Keerthi died...Keerthi died,” ring in my ears, as my young brain attempts to process them. In that moment, everything changes. The impact of her death hits me like freight train. In that moment, I realize what I have lost. A cousin, a big sister, a best friend, a mentor, a part of me. In that moment, I realize everything is not going to be fine. My cousin died because of the flu, because she didn’t have access to medical professionals like I do in America. It’s more than just unfair – it’s a horrible thing to think about, but it’s the way the world is. Nine years later, I still reminisce about Keerthi everyday. It’s hard to forget her. Pictures of her. Old toys that she gave me. Even my youngest brother, Sankeerth, born about three years after her death, shares her name. And I don’t want to forget her. She was one of my first non-parental mentors in life and a true inspiration who lived her life being happy every second by doing whatever she wanted to. And maybe, just maybe, I can preserve her memory a little bit by living my life like her.

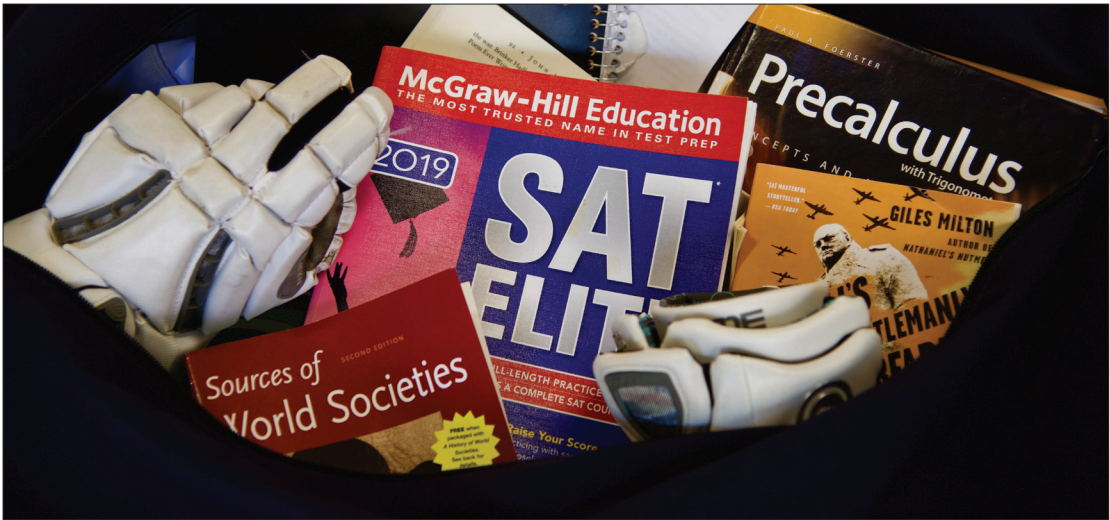


Sid Vattamreddy
Managing Editor

STUDENT ATHLETES

Pucks for books

Senior Luke Adams is in the midst of a unique college process. Sights set on college hockey, he is prepared to put school on hold to focus on his lifelong passion.



BUNCHED UP
Juggling school and hockey, senior Luke Adams has to work double-time to balance his workload.

For seniors, the coming months are defined by the anxiety and anticipation surrounding college acceptances. Tirelessly writing and editing essays, forming the perfect résumé and putting the final letters on their transcripts, they prepare for life next fall on college campuses all across the country.

Except for senior Luke Adams.

After falling in love with hockey as the young son of a Dallas Stars’ team doctor, Adams is prepared to go all in on the unconventional route to Division I hockey.

...

Following graduation next May, Adams plans to pursue a spot on a team in the United States Hockey League (USHL) or North American Hockey League (NAHL). Both leagues are considered amateur leagues and often lead to collegiate opportunities.

“Instead of going to college after senior year, I’ll probably be taking two gap years to play junior hockey, and then I’ll go play in college,” Adams said. “That’s the desired path and the normal path for hockey.”

While Adams has experienced recruiting with his club team during high school, recruiting intensifies in the USHL and the NAHL. For most collegiate programs, there is a noticeable difference between high school players and players who have experience in these leagues.

“The recruiting starts a little bit now, but junior hockey is when the bulk of it happens because if you can get kids coming in as 20-year-olds, why would you commit an 18-year-old, especially when you can watch them develop for two more years,” Adams said. “That’s the philosophy of a lot of programs.”

While the bulk of recruiting for hockey occurs after high school, Director of College Counseling Veronica Pulido emphasizes the value of being ahead of schedule for potential college athletes.

“There’s a lot of pieces that go into it, depending on the sport, but earlier versus later is always going to be helpful,” Pulido said. “In addition to the process itself, if a student is hoping to be recruited, then potentially, they will need to start taking standardized tests sooner rather than later. So then, when the college coaches say, ‘All right, let me see your numbers’, they have something to give them.”

“I FEEL A LITTLE **ALIENATED FROM THE OTHER SENIORS** GOING THROUGH THE TRADITIONAL PROCESS, BUT I DON’T FEEL TOO HORRIBLE ABOUT IT.”

— SENIOR LUKE ADAMS

Pulido believes admissions offices have the ultimate say in the fate of the school’s recruits. If Adams’s plan succeeds, he will be one of these recruits after his two gap years.

“The athletic piece of it comes into play that they have been potentially pre-screened,” Pulido said. “[Coaches] have looked at transcripts, test scores or something and then have gone to admissions to say, ‘is this candidate viable for the admission process?’”

The coaches get approval from the office to continue recruiting, and the admissions office ultimately makes the final decision.

“When it comes right down to it, obviously, admission still has the last say in terms of having the student admissible or not,” Pulido said.

There are differences in communication between regular applicants and recruited athletes.

“Some colleges will send a ‘likely letter’ saying that, if everything stays the same, they are likely to gain admission when decisions come out,”

Pulido said. “So that piece of it is somewhat different than other applicants, but the recruits still need to go through the admission office.”

Despite Adams being focused on the USHL and the NAHL, there are plenty of other similar leagues all across the continent. Once he has found a league, Adams will move in with a local family where his team plays.

“There’s actually five or six different leagues around the country and a couple up in Canada,” Adams said. “There are some semi-professional leagues that are technically professional so you lose your college eligibility. But, there are two leagues in the U.S. that are basically Division I feeders and there’s also two like that in Canada. You go and you live there, and you live with a family there and just play hockey and maybe take one college class. If you take more, you can lose a year of eligibility.”

Pulido sees added value to athletes coming from 10600 Preston Rd.

“I think that is a big sell to colleges that the college will not only get an athlete, but they are going to get someone that’s engaged and cares about the world and other things that have a larger meaning,” Pulido said.

In case his plan doesn’t work out, Adams plans to apply to a single college this year. He recognizes the divide between himself and his peers, the majority of whom will apply to anywhere from six to 10 schools.

“I’m applying to one school, just in case stuff doesn’t really work out or, more likely, if I really don’t like [junior hockey],” Adams said. “I feel a little alienated from the other seniors going through the traditional process, but I don’t feel too horrible about it.”

Years after watching any game he could as a toddler, Adams reflects on his start in the sport.

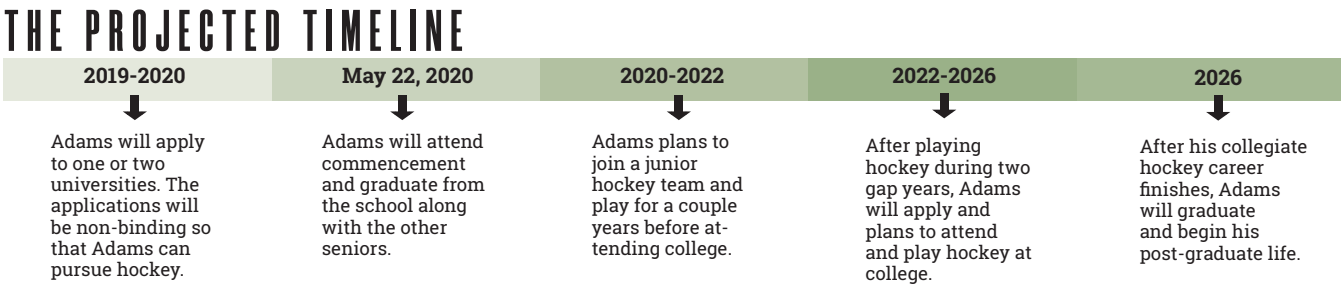
“I went to a lot of games when I was little and just fell in love with it,” Adams said.



SKATER BOY Senior Luke Adams glides down the rink in an effort to score a goal. Well over six feet tall, Adams has been a force as a forward for years.



FROM O TO D Fighting to win the puck back for his team, Adams uses his stick to check his opponent. Other than goalie, each position in hockey requires offense and defense.



Basketball league formed by sophomores

by **Peter Orsak**
Sophomores Camden Reeves and Alex Nadalini founded the St. Mark’s Sophomore Basketball League on Sept. 16. Through four weeks of play, there are ten teams and 40 players involved, all from the sophomore class.

The founders say they were inspired to create the league to serve as an outlet for competition and fun.

“Groups like this are really good for stress relief and relaxation, which is important at St. Mark’s.” Nadalini said. “If students here go to class then go home to study nonstop, it can become overwhelming. The league offers a way for students to have a break in that routine and for them to have fun, interact with friends and relax during the week.”

Reeves and Nadalini say they created the teams based on experience and chemistry.

“Our idea was to play 3-on-3 games from the beginning,” Reeves said, “so after sending out surveys determining how many people were interested, we broke down the grade into tiers of players and assigned them to captains. We tried to make the teams even in talent while not upsetting people with the decisions.”

As members of the student council, Reeves and Nadalini feel they have responsibility to unify the grade and provide fun opportunities.

“One of our goals as ‘class reps’ is to plan more events such as service projects, tournaments and gatherings that bring the class together,” Reeves said. “Projects like the basketball league give the class a unified identity because people willingly come together to play.”

Reeves and Nadalini said unlikely friendships have also been created as a result of the league.

“By selecting the teams somewhat randomly, opposed to having a draft where friends pick friends, I think we are able to bring classmates together,” Nadalini said. “I think it is good for people to have the opportunity to get out of their little bubble of close friends, and instead, compete and work with people they ordinarily wouldn’t.”

As for the league’s future, Reeves hopes it expands and continues.

“We want to keep the league running as long as people continue to show interest, whether that’s a trimester, the school year, or spanning over more of high school,” Reeves said.



ON SET Matthew Berry prepares to go live for The Fantasy Show, available on ESPN+, where he talks all things fantasy football.

William Aniol: What advice would you give to a fantasy football player here who has endured a rough start to this season?

ESPN senior fantasy football analyst Matthew Berry: I think the first thing you have to do is get an honest assessment of your team and figure out why you are losing, why you’ve gotten off to a rough start. So there’s a variety of reasons for that. It just sort of depends. Maybe you got a rough start because you drafted Tyreek Hill with your first round pick. Obviously, he missed the first half of the season or maybe there was another guy that you also drafted.

Let’s say you drafted Tyreek Hill and Robert Woods, those were your top two wide receivers and Woods leads the NFL in terms of targets without a touchdown. So he’s just had some really bad luck. The idea would be in that case, it’s a little bit of being honest with yourself and being like, ‘This is a good team and now that I’ve got Tyreek Hill back, there’s a positive regression coming for Robert Woods, so I’m just going to hang tight.’

WA: And another scenario.

MB There can be another thing where you look at it and say, ‘I’m the third highest scoring team in the league, I’ve just got really bad luck in terms of matchups. Every week I play the highest scoring team in the league.’ Again, you’ve had really bad luck, so in that case, you just got to stay the course and hope it will correct itself in terms of the scheduling.

However, if it’s just that you drafted Joe Mixon and you drafted a couple of busts and Josh Gordon and your tight end was Jared Cook, then you just made a mistake. You obviously got to start making some moves and making some drastic moves. Depending on where your record

is, one of the things you could do is literally just focus on winning this week. You can’t be sitting there going, ‘Well if I get to the playoffs...’ Literally just win this week—survive and advance.

‘What moves can I make literally just to try to win this week?’ And then next week after you won, ‘Okay, what do I have to do to try to win this week?’ Just sort of take it on a week by week basis. That’s my overall advice if you’ve gotten off to a rough start, you need to do a very good self assessment as to why and then you can address it from there.

WA: Should you always be looking to upgrade your team, even though you might have gotten off to a hot start?

MB: I think this goes back to the same sort of thing, it’s all self-analysis. So why are you five and two? Why are you six and one? Do you have a really good team? Do you have guys that are performing at a very high level? Or, again, have you sort of gotten lucky with a couple of big performances? I think it’s like, ‘Why are you winning? And do you think your team is really good?’

I always think it’s a great idea to try to improve your team, but I also think that at six and two or seven and one or something like that, you don’t want to tinker just to tinker. I think that’s an underrated skill in fantasy football—self evaluation.

Why is your team doing what it’s doing, whether it’s good or bad? And is that sustainable? Can it continue to happen? Have you just got lucky? Or do you have a good team that’s balanced and producing?

The other thing is you need to know your league. You need to also have a good assessment of your league. Is this the league that’s active on the waiver wire?

Is this the league that trades a lot?

Knowing how active your league-mates are

going to be will help you determine the course of action as well. If they’re not real active on the waiver wire, you’ll be able to get what you need on the waiver wire, but if they’re all sharks, you may have to try to upgrade and start wheeling and dealing.

WA: The phrase “Fantasy football leagues aren’t won at the draft” is widely used. What kind of an emphasis do you place on trading?

MB: I don’t know that I’m constantly looking to trade but I am always looking to improve my team, and if that means a trade, sometimes the best trades you make are the ones you don’t make. Just sticking with the team that you have.

My philosophy on trading is that you should try to improve your team in any way necessary. Sometimes that’s trading, sometimes that’s staying put because you’ve done a good job at the draft, sometimes it’s being active on the waiver wire.

WA: What important skills does fantasy football teach that can be applied to the real world?

MB: Number one is communication and working together. It’s very hard to go into a fantasy league and not deal with your league-mates, whether it’s trades, waivers or league rules. So you’ll need to learn how to get along and negotiate, and you’re not successful at fantasy if you don’t pay attention, if you don’t put in the work in terms of researching and setting your lineup.

And work ethic—the ability to read and process information are all important skills along with attention to detail. Communication is huge and analysis being able to understand why things happen and the ability to analyze your situation and understand what is happening and why it’s happening and whether it’s likely to repeat or not. I think is a very valuable skill in life as well.

five things to know about matthew berry

- Matthew Berry is a co-host of ESPN’s Fantasy Focus Podcast and The Fantasy Show on ESPN+, where the crew previews and reacts to Sunday’s action
- Follow Berry on Instagram and Twitter: @MatthewBerryTMR for instant fantasy analysis
- Berry’s nickname, Talented Mr. Roto (TMR), is a reference to his beginnings, as he launched the fantasy sports website “TalentedMr.Roto.com.”
- Berry’s weekly rankings can be accessed via the ESPN Fantasy Sports app
- Berry is also the founder of the Fantasy Life App, providing players with breaking news and a forum for discussion

INTERVIEW William Aniol PHOTO Courtesy Matthew Berry



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AROUND THE TRACK Sophomore runners begin their practice runs around campus.

Behind seniors leadership, cross country team gears up for SPC

- 2018 SPC FINISH** 2nd
- 2018 BEST FINISH** 1st at Northwest Invitational at Discovery Park
- 2019 BEST FINISH** 1st at St. John's Maverick Ramble

THEY SAID IT "Both junior varsity and varsity have put in a lot of effort. However, the other schools are keeping with our pace. We must continue to keep working to become our absolutely best for SPC." — senior captain Devan Patel

THEY SAID IT "The biggest thing that stands out to me on this year's team is they have developed a love for success that outweighs the fear of failure." — Assistant coach Ryan Hershner

NOTABLE The closest that the Arroyo brothers have finished together is a 0.1-second difference.



COMPILATIONS Jack Davis, Ethan Borge, Drew Woodward
PHOTOS Evan McGowan, Ekansh Tambe, Ben Hao

MAKING THE TACKLE Leaping onto the ball carrier, senior captain Carr Urschel and Cornerback Ryan McCord bring the Episcopal running back to the ground in their 14-52 loss against Episcopal High School Oct. 11.



Volleyball secures second seed in North Zone going into SPC tournament this weekend

- 2018 RECORD** 13-9 **2018 SPC RECORD** 5-3
- 2019 RECORD** 6-7 **2019 SPC RECORD** 6-2

NOTABLE Both counter games against Trinity Valley, the number one seed in SPC North Zone, have gone to five sets, the highest number of sets possible.

THEY SAID IT "It's magic on the court. It's great to see what all of us can do when we come together as a cohesive unit." — Junior Vatsal Vemuri

NOTABLE After placing the second seed in the North Zone, the Lions will play St. Andrew's Episcopal School Nov. 8 at Awty International School in Houston.

SERVICE Beginning the point with a jump serve, senior captain Lincoln Dales serves the ball over the net. Dales helped lead the Lions to a 3-0 win over the Greenhill Hornets at the homecoming game hosted by Hockaday Oct. 25.

Football grabs a 25-0 win during Homecoming game against Greenhill

- 2018 RECORD** 4-4 **2018 SPC RECORD** 2-4
- 2019 RECORD** 3-5 **2019 SPC RECORD** 1-4

NOTABLE 3 players, senior captain Anthony Andrews, senior captain Paxton Scott and cornerback Ryan McCord, have received NCAA offers to play football in college.

THEY SAID IT "The added intensity and attention to detail from coach Lee have done so much to help better prepare us for games." —junior wide receiver Connor Gaffney

THEY SAID IT "I can not ask for much more from or guys in terms of their attitude and effort. There are so many great stories of kids stepping up and doing things the team needs them to do, and I'm really proud to be associated with the guys we have playing football." —Head Coach Hayward Lee

EDITOR'S NOTE: Due to weather delays, fall SPC game results will be covered in the December edition of *The ReMarker*.

Sports junkie

A deeper dive into Lions sports for the fall season. Statistics and records reflect games through Nov. 2.



21




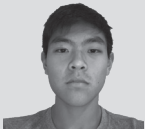
Set wins through eight counter games

6

Longest winning streak this season

OVER THE NET

Sophomore opposite hitter Miller Trubey hits the ball around the block from opposing Greenhill squad as the Lions win their Oct. 25 Homecoming game three sets to zero.

Football	Volleyball	Cross Country	Word from the captains	
Advanced stats: Four seniors plan on playing collegiate football after their senior years. SPC 4A Standings: 1) EHS (6-0) 2) Kinkaid (5-1) 3) St. John's (4-2) 4) ESD (3-2) 5) Houston Christian (2-4) Defensive statistics: The team's 25-0 win vs. Greenhill marked the second defensive shutout this season Last three: Nov. 1 @ ESD 24-31 (L) Oct. 25 @ Greenhill 25-0 (W) Oct. 11 vs. Episcopal Houston 14-52 (L) 'Sports junkie' compiled by Luke Nayfa	Advanced stats: The Lions enter the SPC tournament as the two seed in the North. Through eight total counter games, the Lions have won 21 total sets. North Zone Regular Season Standings Trinity Valley 7-1 St. Mark's 6-2 Casady 5-3 Greenhill 2-6 FWCD 0-8 Next up: Quarterfinal vs St. Andrew's 11/8 Semifinal TBD 11/8 Final TBD 11/9 *All games at Awty in Houston	Advanced stats: Pablo Arroyo's 15:53.4 second meet broke the school record previously held by Seth Weprin. The teams first place finish at the St. John's Maverick Ramble was their second of the year. Last three results: Nov. 9 SPC XC Championship: TBD Oct. 25 SPC North Zone XC: 1st Oct. 12 St. John's Maverick Ramble: 1st Top three times: Andres Arroyo: 15:53.4 Pablo Arroyo: 15:55.7 Tyler Nussbaumer: 16:43.2 Next up: Nov. 23: NXR South Region Championships	 Senior football captain Carr Urschel "I know our record might not reflect how mazing our season was, but thats not important. I think that this season shows the potential of St. Mark's athletics. There is not another group of guys that I would have rather shared my senior season. I loved this team"	 Senior volleyball captain Lincoln Dales "Despite a few tough injuries this season, we're playing very well together and poised to make a run at the championship this SPC tournament and hopefully get another ring. Being a senior this year has helped me relate with the young guys who help us get better each and everyday."
			 Senior fencing captain Tianming Xie "The season's been going pretty strong. I'm glad that everyone on the team, especially the underclassmen, has shown significant signs of improvement. As a team, we've had a few injuries, but we are going to finish strong."	 Senior cross country captain Benjamin Hao "This is the best year for cross-country I've been a part of. The team is dead set on winning. We've done well in all our training and past meets, and it is all coming together just in time for SPC."



SWORD FIGHT
During an intense practice in Spencer Gym, junior Rikhil Manduva and freshman Branden Song face each other in a fencing match.

Super-fan teachers?

When they're not in the classroom, Mark Adame and Joe Milliet can be found in the bleachers or on the sidelines, cheering the Lions on — day in, day out — earning them the title of Super-fan faculty members.



ALL DECKED OUT Both Milliet and Adame have been supporting school events at St. Mark's for over a decade.



SUPPORT MEN (Left) Adame enjoys taking his bike to cross country meets where school teams are competing. (Right) Milliet is passionate about watching students enjoy other activities outside of school. Taken by Tucker Ribman '18, this photo hangs in Milliet's office today.



BY THE YEARS

20 years

Joe Milliet
Former chair,
Mathematics
Department,
McGee Master
Teacher

13 years

Mark Adame
Biology, AP
Biology,
DNA science,
Cycling Club,
Biology Club

Cristian Pereira: When did you start going to school sporting events?

Joe Milliet: My very first year here I had a bunch of wrestlers in my [College Algebra and Trigonometry] class, and they demanded I go to their wrestling meets. I was also doing a conference at UT [University of Texas] down in Austin that year.

After I finished speaking, I knew some of my water polo guys were there and I just walked over from the building I was speaking in over to the Lee and Joe Jamail Swimming Center. It started then.

Mark Adame: I taught in Little Rock, Arkansas, back in the late 90s and early 2000s. I had some kids that wanted to letter for a sport, and they asked me if I wanted to coach cross country. I figured it'd be fun to coach. When I moved to Texas, I just didn't have time, so I started going to meets. My wife and son have an interest in cross country too—she's telling me to coach—and we go to the meets that are anywhere north of here.

Sometimes we'll go out west to Fort Worth. I got to ride my bike up to Denton last month. I've been here since '07—I've been going to [meets] as often as I can for the past 11 to 12 years.

CP: Why do you enjoy watching the Sporting Events?

JM: I think high school sports are the last bastion of where kids play for the joy of it. I also go to the orchestra concert, the band concert, the choir concert, lessons and carols, all the plays, Eagle Scout ceremonies.

It's more being a fan of the school, not just the

sports. I like watching my students do something that they are passionate about, that they love doing. That could be a sport, but it could also be a fine art.

MA: I like the atmosphere. It's always fun, sometimes I miss coaching but not enough to do it again because there's no time. I've always had students in class that do cross country and every time I go it's the exception to see a teacher there supporting them—I'm usually the only teacher there.

I always think it's important to be there to cheer them on, and they're always great. The runners are always grateful and they always go out of their way to thank me.

CP: Mr. Milliet, do you prefer school events to professional events?

JM: If there's a school event going on at the same time as a professional event, I'll record the professional event and go to the school event—If I want to watch that game later, I can just watch it recorded. I'll choose the school event over the professional event anytime.

CP: Mr. Adame, what is it like to see your students run?

MA: It's a lot of fun because the courses are set up so that there's a couple of different vantage points that you can get to within the 15 to 20 minute race. You can jump to about four or five places to yell and scream from and encourage them. When I ride my bike I also get miles in on the ride there and back.

REMARKER

SPECIAL SECTION • ST. MARK'S SCHOOL OF TEXAS • DALLAS, TEXAS • VOLUME 66, NUMBER 2 • NOVEMBER 15, 2019

TORNADO DAMAGE

St. Mark's strong

As an F3 tornado ripped through the Preston Hollow area and the greater Dallas community the evening of Oct. 20, hundreds of stories of devastation, community work, future plans and other personal stories came to light. *The ReMarker* took this chance to cover the experiences that have come out of that night. One of those stories comes from senior William Gonzalez...

All havoc broke loose...

Senior William Gonzalez walked into the Preston-Royal Tom Thumb, put his car in park, plugged his phone in to charge and ran into the safety of the indoors.

Rushing through the store, Gonzalez pulled out his wallet, paid for the packets of ramen and ran out to his car.

The rain was pounding outside now as he slammed the car door behind him, putting the key in the ignition as fast as he could. He checked his phone for the first time in ten minutes and saw dozens of texts from his family to get home ASAP.

The rain died down, but once he got to the intersection of Preston and Royal, all havoc broke loose. The street lights went out. The winds picked up. The power shut off around him. Debris swarmed his car, and in a moment, his side view mirrors were ripped clean off and a tree branch smashed against the front bumper of his car.

Turning onto Tibbs for safety, Gonzalez wanted this nightmare to be over. Coordinated to the exact second, all of his car windows caved in from the pressure of the tornado. Glass flew all around him as he jumped in the backseat of his car.

All he could do was pray for the tornado to pass over him. Peeking outside his windows, Gonzalez could see the tornado rip through his childhood neighborhood as roofs and entire houses were blown away and leveled.

Eventually, he got out of the car, took the keys, grabbed everything of value and just started walking in the pitch black darkness. Stepping over tree trunks and power lines, Gonzalez could hardly even recognize his neighborhood.

PHOTO Courtesy Development Office

DON'T MISS

Stories from our community

• Reaching out to members of the community affected by the storm, their stories from that night are recounted. **Pages 3,4,5**

Timeline of events

• From the night of the storm to the first day back to school Oct. 30, many moving parts happened to bring students back. **Pages 6,7**

Community support

• From passing out breakfast in the affected communities to fundraising for DISD schools, Marksmen have continued to support the affected Dallas area. **Pages 9,10**

32 minutes, 15 miles

The tornadoes that struck the community left unfathomable damage and destruction. Here's how the night went down.

On the evening of Sunday, Oct. 20, ten tornadoes passed through the Dallas-Fort Worth Metroplex around 9 p.m. Many smaller tornadoes in the EF-0, EF-1 and EF-2 categories touched down near Allen, Rowlett, Rockwall, Ferris, Garland and other areas.

But the biggest one, classified by the National Weather Service as an EF-3 tornado, tore through North Dallas and made its way to Richardson. The storm is believed to be the strongest tornado to hit the North Dallas area since May 26, 1976.

The EF-3 tornado in Dallas lasted 32 minutes, traveling about 15 miles across two interstate highways. Around three-quarters of a mile wide, the tornado had wind speeds of up to 140 miles per hour according to Dallas News. Fortunately, no lives were lost due to the tornado — three individuals were taken to hospitals for treatment on smaller, non-life-threatening injuries.

However, more than 2,000 students had to be relocated to different locations to continue school, as many schools in the North Dallas area — including Walnut Creek Elementary, Thomas Jefferson High School and Cary Middle School — were either

severely damaged or destroyed by the storm.

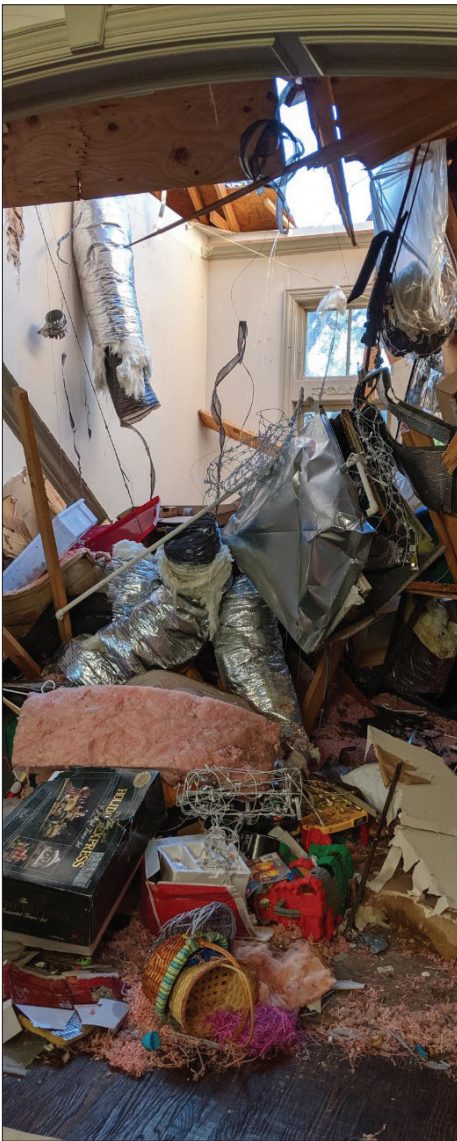
According to Dallas Independent School District (DISD) Superintendent Michael Hinojosa, many schools in need of repair could be closed for up to 18 months or even longer. The storm was believed to have knocked out power for over 150,000 people, and as of Oct. 22, 31,000 residents were still without power, according to poweroutage.com.

The storm caused widespread damage to residences and public buildings alike — houses, stores and other buildings across the North Dallas area were harmed.

In fact, the damage was severe enough where Texas Governor Greg Abbott issued a disaster declaration for 16 counties.

As a result, some relatively unharmed buildings such as the Bachman Recreation Center were opened to provide shelter for people whose homes were severely damaged.

Although the tornado was the hardest one to hit the Dallas area in over 40 years, weather surveyors are unable to attribute the damaging storm to climate change, and a tornado during the October-to-November tornado season is nothing unexpected, according to a weather.com analysis.

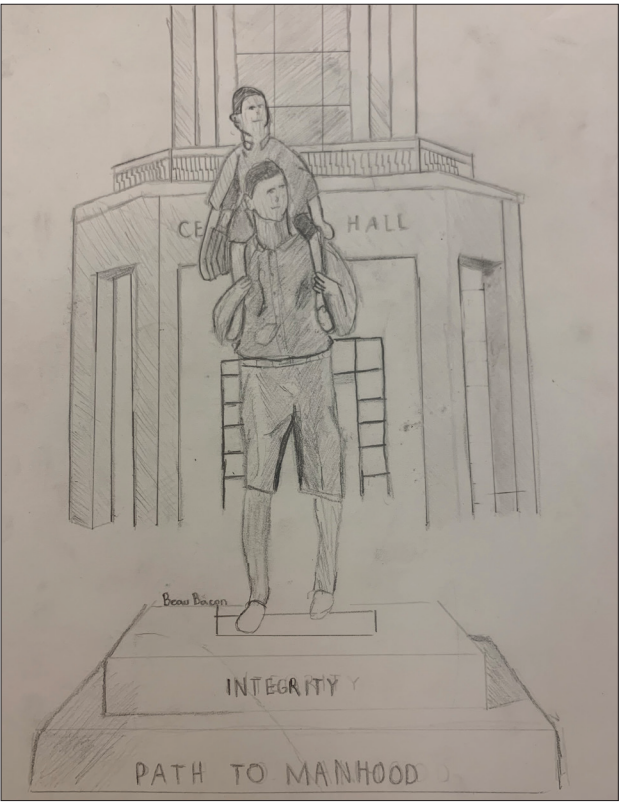


STAYING HOPEFUL
As the campus is rebuilt after this setback, the Path to Manhood statue remains standing among the wreckage, watching over the community.

LOSING A HOME
On Sunday evening, junior Jamie Mahowald and his family lost much of their house (left and column, right) on Pemberton Drive to the tornado, with their attic falling into their living room.



PRACTICE CANCELED Hicks Gym received the most damage out of all buildings on campus, but the new locker room sits intact.



Sixth grader Beau Bacon captures school monument still standing after storm

Living in Frisco, Beau Bacon didn't hear about the tornado until the morning after. But when he found out, the impact was huge. Like many other students, Bacon couldn't believe the damage to his school. This was his first year, and his new home was wrecked. So he expressed himself:

- “I drew [my drawing] on Tuesday—that’s when the pictures started to come in. I saw a picture of the Quad—it almost looked like the Courage and Honor statue wasn’t there. So I decided to draw that.”
- “I did light traces of the background because I didn’t want the background to look off. And then I started drawing the statue. I started drawing the senior, then moved to the kid.”
- “I’m a new student this year. It’s definitely disappointing that my first year something as bad as this happens to the school. I know it impacted people who have been here, especially if they’ve been here for a long time.”

The light at the end of the world

Them ‘nados. They’ll getcha real good.
My dad’s friend Bob’s deep, bassy Southern words navigate their way into an odd, unused part of my mind, the weave of his voice driving past the rubble and wreckage of the eternal and everlasting — and, at this point, frankly annoying — ‘I’m sorry’s and ‘How are you doing’s.
Instead, he tells me the ‘nados will getcha.

The phrase sits in a place in my head I have an easier time with — I jive more smoothly with the matter-of-factness, the finality of them ‘nados and their getting me than the sappy condolences in the mouths of everyone else, the sweet and soggy eyes, the strange and stringent smiles, the synthetic sorrys flooding my headspace.

“Just drop me off at the Penske in Carrollton,” Bob says. “I’m rentin’ a truck to move some stuff from y’all’s home. I35’s good right now.”

He takes the rest of the ride to sit in silence. The first few minutes are awkward, the unspoken non-issue of our shattered, devastated neighborhood ringing through the car’s interior.

But as soon as we get out of Preston Hollow, it’s over. Bob’s the first person not to overtly offer his sympathies, and I’m grateful — because he keeps going.

•••
Someone else’s mother steps up to me beside a fallen tree outside my capsized living room.

“Well, Jamie,” she begins, unwitting animosity in her voice, “it’s just a little odd to see you like this, I don’t think you’re processing it very well, and—”

How I’ll process it is however it passes through my mind and not any different, I think. I can lose a house without losing my sanity; for God’s sake, nobody even died.

The fact is, for me anyways, is no matter how many pianos were crushed under the weight of my fallen attic’s onslaught of weathered cabinets and insulation, I’m going to be fine.

I’m going to live in this rental house in Lower Greenville for six months to a year, then I am going to return to normalcy — that traumatic, deadly night a footnote in my adult memory — and I’m going to be fine. I’m going to make ill-timed and uncalled-for jokes like *I love this song! I learned it on the piano we don’t have anymore*, and I’m going to be fine.

“If there’s anything I can do, please let us know.”

You’ve done all you can. Thanks.
To see my street at the end of the world was to watch the matrix of my upbringing reduced to nothing.

But in a year, in a fraction of my life, it’s going to be back, and it won’t carry the exact same character it had before the storm, but it’s changed as much in the last year, in the last two years, in the last ten years I’ve lived there.

What discrepancy exists between how I’m expected to react and how some third party thinks I should be processing the trauma — and I’ve been told to use the word “trauma” — blurs the line between cause and effect, between what security I’ve destroyed and what the tornado has.

That reconstruction doesn’t have to happen. But it will, and it’s a good thing the ‘nado got me and not someone who’s not going to be fine.

But it got me real good.



Jamie Mahowald
Graphics director

'We've got to get out of here.'

The destruction of their home made Cooper Cole and his parents realize what's most important to them: family.

The Cowboys game plays from the living room. While David and Catherine Cole watch the Cowboys on their way to a 37-10 win over the Eagles, sophomore Cooper Cole talks on the phone upstairs.

It's Oct. 20. A Sunday, just like any other.

But around 9:30 p.m., all three phones light up with the same message:

Emergency: Tornado touchdown nearby. Take cover immediately.

Cooper initially blows off the warning, but rushes down after his mother yells at him to come downstairs.

Hurriedly, the three make their way to the pantry.

Not a minute later, all the windows simultaneously shatter and the house shakes and buckles under the pressure of the strong winds.

When they leave their shelter, the family finds themselves in the exposed skeleton of their house.

...

In the pantry, the experience doesn't last long, but it's unlike any other. Before hearing glass shatter throughout the house, wind rushes under the door of the pantry, and the pressure change in the atmosphere causes Cooper's ears to pop.

"The experience itself; you're panicked, but you immediately go into a mindset of 'we've got to get out of here,'" David said. "So you don't have a whole lot of time to freak out or meltdown. It's just 'it's not safe here, you've got to get out.'"

After the initial tornado, at approximately 9:30 p.m. that Sunday evening, heavy showers immediately follow about five hours later. Accounting for damage caused by both the tornado and the following showers, David estimates that 80 percent of their possessions were damaged.

"That's the first thing you think about trying to save is the important stuff," David said. "A bed can be replaced, but a picture can't necessarily be replaced so you start trying to gather that stuff and protect those things."

Having seen images of other natural disasters, such as the wildfires in California, the Cole family truly understands the difference between witnessing and living destruction. Camille Cole, Cooper's sister, says that walking through her wrecked childhood house was more powerful than the pictures she saw at college.

"The pictures and the videos on the news don't do it justice at all," Cooper said. "Everyone didn't really

understand how bad our house actually was until they walked through it."

The Cole family stresses the importance of families discussing where the safe space in their house is located during an emergency.

"People need to think about it, it's something that's never really discussed," David said. "The damage from a tornado, when people get hurt, it's because of debris in the wind. So it's flying glass. If you have a contemporary home that's really full of glass, you need to make sure you have a room that is built in safe in the event of something like this."

In the aftermath of the destruction, the Cole family received a lot of help from various people, even those they didn't know too well. This kindness from relative strangers put life and the goodness of people into a different light for them.



David Cole
Cooper's father

Despite the huge losses, the Cole family is simply grateful that their family is whole and safe.

"It also makes you realize your home and your material possessions are important, but they're really not," David said. "That's not what's important. What's important is that you're safe and your family's intact."

However, the tornado will leave a deep mark on the Cole family, not only in the destruction of their house and a majority of their possessions.

"Anxiety, in regards to weather in the future, is going to put it in a different light to us," Cathy said. "Storms never bothered me before. Cooper's always had a little bit of anxiety about storms, but I think from now on, when we see things pop up on the radar, we're going to be a little nervous."

As they slowly return to normal, the Cole family faces small peculiarities here and there. For Cooper, it's replacing the small things, like his toothbrush or his razor. But the whole family faces big changes to their everyday experience together.

"Everyone is comfortable in their own home," David said. "There's a certain amount of security and warmth about your own home, and that's just something we're not going to have for while."



SEA OF RUBBLE As the twister ripped through the Cole family's home in North Dallas, it flung debris, much of it not even theirs, into their yard and all over the exposed second floor.

IN HIS OWN WORDS

Security guard Daniel Mauch, the only person on campus when the storm hit, recounts that Sunday night.



Daniel Mauch
Campus security guard

Sid Vattamreddy: Can you take us through what happened that night?

Daniel Mauch: I came in before 9 p.m. I was rotating the golf carts. As I was rotating the golf carts, I heard a siren. I received a phone call from Mark Webb. He told me,

"There's a tornado alert." I was standing out in front of the gym looking out and all of a sudden, the wind stopped.

All of a sudden, it picked up real quick. I looked out there. All I could see was rain coming this way – just like a pour down coming this way. I was still on the phone with Mark Webb. I was telling him what exactly I was seeing.

I walked into this interior window and looked out, and the tornado's started to come up the parking lot from the flagpoles to Hicks Gym. It looks like a bunch of rain just pouring down. I said, 'Okay, that could be a tornado.' I walked into the security office. Closed the doors. It only took a few moments. Sounded like a huge train going through Hicks Gym.

I told Mark Webb, 'We just got hit by a tornado.' Ten, 15 seconds later, I opened up the door, walked outside, looked around. All the vehicles in this area are totally scattered. My vehicle was totally gone. I took out my flashlight, walked around, took a few pictures and called [Security Director] Dale Hackbarth to inform him of what had happened. And that was it. It happened in 10 or 15 seconds.

Siddhartha Sinha: Did you ever think something like this would hit St. Mark's?

DM: It's always possible. Tornadoes do hit. That's why I was carrying a little emergency equipment in my locker, extra lighting, lanterns. I didn't consider getting hit so close by an F-3 tornado just on that side of the wall.

SV: Who was the first person who you saw after everything happened?

DM: The first person that came up here after it happened was probably Dale Hackbarth. That was probably an hour later because most of the streets and roads were totally cluttered by debris. Emergency vehicles were out. A lot of people could not just simply get in. Even Dale Hackbarth could not get in.



OVERTURNED Sophomore Cooper Cole's room was devastated by the tornado, with most of the second floor of his home completely destroyed.

EDITORIAL

From tragedy, gratitude

On Oct. 30, we returned. The entire school came together in Spencer Gym — since Hicks Gym was destroyed — for a special assembly as we returned.

Seniors sat with their Lower School buddies, classmates sat next to classmates — all brothers reunited after seven days being away from their second home.

Headmaster David Dini and Student Council President Taylor Hopkin focused their remarks on themes of service and gratitude.

Though the whole St. Mark's community has contributed much to the successful resumption of campus activities, we would like to express profound gratitude:

- Despite ten recorded tornadoes up to F3 force, Dallas sustained no deaths and only single-digit injury reports. That so many thousands of people were unharmed is truly a miracle.
- While the north of campus suffered severe damage, the majority of academic spaces, including Hoffman Center, Centennial Hall and the Winn Science Center, were spared from the storm. Thanks to this, our recovery efforts were greatly hastened.

- The construction teams and engineers — whose efforts continue today — risked their personal safety to come to campus not even 24 hours after the storm hit to conduct damage assessment and establish a plan for repairs.

- The storm provided the opportunity to learn lessons out in the community, giving us the chance to understand the truth behind our studies of service, grace, and brotherhood — not just within the sphere of the school, but within the larger city community.

- School administrators played a crucial role in coordinating relief efforts and bonding events across grades and divisions. Their actions were instrumental in bringing the community closer together.

- Lastly, we would like to thank Dini for his decisive leadership and deliberately-channeled passion during this chaotic time. He was the driving force behind the community — effectively willing the school to re-open well before anyone would have predicted.

Yes, the tornado wreaked havoc and disruption beyond description.

But the lessons we have gained from this tragedy will stay with us forever.

The unity in tragedy

They say an approaching tornado sounds like a freight train. Let me tell you, it sounds like a tornado.

My huddled family, including one very confused labradoodle, spent the next 90 seconds listening to thuds and cracks as my house and every one of its seals groaned and strained to resist the impossible force.

Our ears popped violently with pressure changes and concussions of air.

And then, as quickly as it was upon us, it was gone.

I apprehensively approached the bathroom door not knowing what, if anything, was on the other side. Would we even be able to get out of the bathroom? Would we see the night sky?



Cooper Ribman
Discoveries editor

I expected the sheer destruction. I expected shell-shocked neighbors emerging from their hiding places and pouring into the street sobbing at the loss of their property.

What I did not expect was nearly every single one of them out and about, checking to make sure that their neighbors were okay, finding whatever tools they were able, and immediately setting to work clearing debris off of garages and out of the street so people could drive their cars to check on loved ones, and emergency vehicles could get where they needed to go.

The teamwork and compassion I witnessed that night were incredible.

These were people I had lived next to for nearly 13 years and never said a word to. I got to haul pieces of a roof out of the street with a man whose name I never learned, I got to saw a tree off the garage of a family whom I had never met before.

Because of the tornado, I got to form relationships with and hear stories from people who I never would have thought twice about otherwise.

Do I wish it hadn't taken an F3 tornado to make me meet my neighbors? Absolutely. I wish my house hadn't been damaged, I wish my school hadn't been dealt a huge blow.

But in seeing all the destruction, I also saw a side of humanity the world doesn't often get to see, the best side. It shouldn't take a natural disaster to make us come together.

But it's good to know when we need to, we can.

Four hours from disaster

For the Ochs family, the community's rapid response came at just the right time.

Sophomore Lars Ochs knew he was lucky. Very lucky.

His family was fine — everyone had taken shelter and was unhurt.

His house was fine — the roof was still there. No windows were broken. No water flooded through the floorboards.

But in the morning, he could finally see the damage.

Trees weren't supposed to go sideways.

The street and his yard were shredded. Tree trunks piled on the sports court, branches and bushes and smaller plants torn to shreds. Chunks of blasted wood on their deck and roof.

This was going to take

forever to set straight — unless they got a lot of help. And it came.

"Our grade reps reached out saying if anyone needed help, and my dad told them we needed some," Ochs said. "The next day, everyone showed up ready to help out."

Many people from the St. Mark's community — students, parents and faculty — came to assist the Ochs in their cleanup.

In just four hours, they'd managed to finish. The hundred-year-old stumps were moved to the front of the house and the smaller brush totally cleared away. It looked like a normal house again.

"We were finally able to leave the house since our doors and

driveway were finally clear," Ochs said. "We were also able to get insurance adjusters out so they could assess the damage — it would've taken my dad and I around three weeks to get to that point on our own."

Ochs believes the showing at his home demonstrates the strength of the school community.

"It makes me feel really good because of how tight our brotherhood is and how our community was so eager to help the people in need," Ochs said. "I really didn't think we were going to get any help from anyone, but on Tuesday morning all these people showed up and made our family's recovery a lot easier."



CLEAN UP CREW After his house and backyard were damaged, sophomore Lars Ochs and his classmates teamed up to clear nearby roads and help neighbors in need for the following days.

STORY Sam Goldfarb, SeMaj Musco PHOTO Courtesy Lars Ochs

Despite losing a second home, let's not dwell on the past

As a kid, I was obsessed with tornadoes. I loved reading about them, I'd watch documentaries on them — I even hoped to see one one day. They just seemed so fantastical, as if God was sending a turbine from the skies.

When I first got the alert on my phone to take cover, I played it off as a joke.

"It can't happen here."

I mean, I'd always heard Dallas was in Tornado Alley, but all the tornadoes near me had always been pretty far off.

Never did I expect it to directly affect my community, in and outside of school.

...

"The bell tower got hit."

11 p.m. Sunday. The tornado's passed. It's when I get the first picture.

And I can't believe it. There's no way my school could get hit. My second home for over a decade. My life. But then the picture of Hicks Gym comes in, and I start to cry.

It's a weird feeling. I guess I didn't realize how attached I was to this school until I saw it get hurt. But seeing Hicks in shambles, the bell tower — a landmark of the school — with missing bricks, and all those buses — man, did



Cristian Pereira
Creative director

I have left in my house — we rarely drink the plastic ones — and start driving towards school.

It's an awful sight. As I near the school, it sinks in.

A tornado directly impacted my community.

I have to stop my car and walk the rest of the way because the traffic is so bad. I grab my water bottles and hand them out to anyone I see working on fixing the damage along the way. As I get closer to my school — my home — I start getting looks of sympathy when people see my St. Mark's shirt. And I get scared.

And there's no way to describe how I felt when I actually saw it. The tennis courts — gone. Hicks — gone. The quad was barely

we lose a lot of buses. I feel like something was ripped out of me.

Immediately the next morning, I have to see the damage. I need to know how bad it's hurt. So I grab all the water bottles

visible because of all the debris and trees scattered all over, and the roofs of Decherd and the chapel looked badly damaged. And I cried.

But I noticed something. Countless crews patching the roof and moving debris. Security officers racing around in their golf carts issuing warnings to bystanders. Productivity!

My school looked like a dystopian young-adult novel, yet the people in it were energized and about. And it gave me hope.

It's incredible that we could get back in school a week and a half after a natural disaster swept directly over our school. To everyone who has helped in this daunting reconstruction process, thank you. There's still a long journey ahead of us, but there's one thing I will carry through it, the whole way — hope.

Hope this institution will rise from the ashes stronger than ever. Hope it will continue to foster the strongest community I've ever been a part of. And hope in a decade, when I'm off doing who-knows-what, the stories told of these last few weeks are not the grief the tornado caused, but the people who carried us through it.

St. Mark's: Ever greater may you rise.

SPECIAL SECTION

In a panic: fight or flight?

Living minutes from school was an advantage. But now, senior Lee Schlosser has been forced to relocate.

I could either do these ten math problems, or I could write that 100 word college supplement.

Senior Lee Schlosser looks back and forth from his open Calculus textbook to the blank Word document opened on his laptop. He doesn't know which one to choose.

Schlosser's eyes wander over to the bottom-right of his computer. 9:12 p.m. Plenty of time.

Alright. YouTube it is.

Schlosser lays back on his bed, stretches his feet out and presses "play." Just like any other Sunday, he'll procrastinate his way through all the work he has to get done for tomorrow.

Half-watching an NBA predictions video, Schlosser picks up his phone and swipes through his Snapchat stories, hoping for some snapchats.

From the top of the screen, a banner slides down. Tornado warning. Schlosser pauses for a bit, not expecting a notification like that to just pop up out of nowhere. A tornado? That's new.

He's pretty sure that has to be serious. But looking at the YouTube video Schlosser's been watching, there's only two minutes left. He's got time.

He doesn't know that in ten minutes, he'll be taking shelter in the basement under his garage.

In ten minutes, the house he's lived in for all of high school will be torn apart.

In ten minutes, that tornado will be right above his head .

...

When Schlosser was first alerted to the tornado, he assumed it was a false alarm.

"I got the notification on my phone," he said, "but you get those every couple of years. Nothing ever happens."

Schlosser decided to lean on the side of caution. He quickly descended from his upstairs bedroom to his parents' office on the ground floor.

"I told them 'Hey, I think we should go down to the basement,'" Schlosser said. "'There's supposed to be a tornado.'"

On their way down, all hell broke loose.

"As we were going down the stairwell, our glass walls exploded," Schlosser said. "Glass shot across the entire house. It was so



loud I couldn't even see straight."

In the basement, their ears popped from the rapid shift in pressure, and the Schlossers heard the tornado ultimately move past and anxiously wondered what was left of their home.

"We opened up the door in the closet we were in," Schlosser said, "and the entire ground was covered in glass."

Crawling and barefoot, Schlosser reached for a pair of his parents' shoes and went up to evaluate the damage.

"There was a massive hole in our house," Schlosser said. "There were doors on the lawn and a part of the roof in the pool."

He was still adjusting to the shock of the aftermath.

"I was in a fight or flight mode," Schlosser said. "At that point, I wasn't processing anything. I didn't care that all of my possessions could be gone. I could just hear people on the street yelling."

That night, Schlosser's only goal was to leave the house and find shelter. He and his parents made their way through overturned cars and fallen trees to the house of a family friend, where they spent the night. As they left, Schlosser was unaware of just how

much damage the tornado had caused.

"It just didn't really seem that bad," Schlosser said. "I didn't see the holes in the other houses, or the roofs that were thrown around until the next day."

But by the next morning, Schlosser realized that the dark had covered the worst of the damage.

"My family definitely didn't do as badly as our neighbors," Schlosser said. "They had an entire room of their house pulled off and had holes in the brick."

But his house had still suffered severe damage. Broken glass covered every surface. So Schlosser did the only thing he could—pick up a broom and start sweeping. He wasn't alone, however.

"Fifteen to 20 St. Mark's guys came to help out," Schlosser said. "And I had another friend come and help me all day."

But he hadn't yet seen all the damage. As he made his way along the upstairs hallway back to his room, Schlosser expected the worst—every other room he had seen had suffered damage or destruction.

"It was the weirdest thing," Schlosser said. "My room was soaked, but basically untouched."

NO WAY TO PREPARE

Although the house is under repair now, the Schlossers' house seemed lost when it was covered with broken glass and fallen roofing.



Sam Goldfarb
Senior Editor-at-Large

It's not just what we have, but *who*

Group message chats kept scrolling down and down and down, so fast I could barely keep up.

War zone. Totally destroyed. Gone.

That's how everyone was talking about Preston Hollow—and campus, as I returned home from seeing family in New Jersey. I was 1,500 miles away—completely helpless. Luckily, our flight was scheduled back the day after the tornado hit.

But I needed to get down there. When I did, I saw that everything my classmates had said was true.

Police checkpoints. Barricades. Shattered windows, blown-open roofs, pancaked cars—a war zone. Homes totally destroyed. Hicks Gym—gone.

Lee Schlosser got me into the neighborhood—his place on Tulip was all sorts of torn up. Just a few weeks before, I'd been laughing with my friends in a room in that

house --6336 Tulip Lane-- in a room that didn't exist anymore.

That hit hard.

Lee and I ran into a bunch of seniors and juniors who were heading out from Mr. Dini's house with a wagon full of water and food. We joined up with the group and started sharing everything we could with people around the neighborhood.

We were a mixed-up bunch. A lot of these guys I'd never had a class with, never hung out with, never even had a conversation with, really.

And I'll be honest. I thought a lot of these guys would be jerks, at least from what I'd heard about them.

I'm so happy to say I was wrong.

I'd never given them a real chance. Never made an effort to get to know them. Never made a point to sit down at a lunch table and talk about something over the pasta-bar special.

We got talking as we moved through the neighborhood. Tossing clementines and water bottles from the cart to workers. Talking about everything—when we were going back, who got hit, who was okay, what we were going to do for basketball season. Talking about college essays and tests and projects and senior exhibitions.

I saw that these Marksmen really were good men—not just because they were willing to serve, but because of their genuine character.

Sometimes, it takes a storm to change the way we think about things and appreciate what we have.

No. Not just what we have in our lives.

Who we have in our lives.

STORY Ishan Gupta, Alam Alidina **PHOTO** Lee Schlosser

A game of Mahjong interrupted

While Gordon Gunn '17 was away at USC, his parents home was devastated.

The first message Gordon Gunn '17 received came from his mother.

Only seconds after, his phone exploded with GroupMe notifications from his classmates' group chat.

Photos and snapchats of the damage to the campus poured in rapidly as his friends at SMU sent updates on the situation as they knew it.

Not only had his alma mater been hit, but his home — located just outside the northern entrance — lay in the path of the tornado, too.

...

During the tornado, Gordon's parents' house was hit and damaged severely. The majority of the windows and doors were destroyed and part of the roof was torn off.

"After it came right by our house, all our windows and doors blew up," Gordon said. "Once my parents could hear that it had passed, they looked out and could instantly smell gas leaks, so they wanted to get out of there."

Gina and Doug Gunn, Gordon's parents,

STORY Jack Davis, Sid Sinha **PHOTO** Gordon Gunn



were at home playing Mahjong—a Chinese tile-based game online—and watching the Dallas Cowboys, respectively, when the tornado ripped through the area. When the pair received the National Weather Service's Emergency Notification on their phones, they immediately switched to see Channel Eight's weather report, which announced that the tornado was headed for Preston and Royal and advised nearby residents to take shelter immediately.

"The phones went off first and then the sirens," Gina said. "If we hadn't changed the channel, I'm not sure we would have moved so quickly."

Gina complimented the school on the speed with which school-related debris was cleared from nearby streets as well as the responsiveness of the administration.

"I noticed how quickly they worked to remove the debris that had come on to Orchid [Lane] from the school," Gina said. "They worked quickly to get that cleared, and were inquiring about everyone on the street."

While the family awaits a structural engineer from their insurance company, the parents are moving into a duplex for about a year. The move will give them time to assess the damage to their house and determine their next steps.

"It's a complicated process, but what's probably going to happen is they're going to move to a duplex for a year," Gordon said. "In that time, my parents will have the chance to put into writing what's going to happen with the lot."

When the Gunns realized the house next to theirs had almost completely collapsed, their focus turned to the woman who lived there.

"There's this 80-year-old woman who lives in that house," Gordon said. "My dad said, 'Oh my god. There's no way she could have survived that. Her house is literally on top of her.' But apparently emergency services were super quick to get the scene, Chainsawing through trees to get to her. It's pretty miraculous that even this elderly woman who lives alone made it out alright."

TORN APART

With their home's damage, the Gunns have been forced to move out until further notice.

“It was pretty crazy that a school bus ended up in the yard next to us.”
Gordon Gunn '17, junior at USC

PORTFOLIO

Unfathomable destruction

It seemed like everywhere people looked, the tornado took its toll. The school's campus, Orchid Lane and Pemberton Drive took heavy hits as the entire Preston Hollow area was ravaged by the more-than-140 mph winds.



Chapel bell tower >

Remains of Hicks Gym ^ >



< Debris and destruction around tennis courts



< Lion statue, still standing



Crumbled copper roofing ^

Chapel and organ damage ^

SCHEDULE

The road to recovery

From a Homecoming football game hosted by our opponent to a rally in the Headmaster's front yard, a lot happened in the days following the tornado. Here's a chronology of some of the most notable events.

Sunday, Oct. 20, 9 p.m.

EF-3 tornado passes through Dallas, touching down on the Preston Hollow area as it travelled northeast through Love Field. School is closed for Monday as authorities find significant damage to Hicks Gym, Orchid Lane and roofing throughout campus.



Tuesday, Oct. 22

The Hockaday School opens its campus for seniors needing to work on college applications. Varsity football also begins practicing on a field painted with football lines, a first in Hockaday's history. Varsity volleyball will join them later in the week.

Thursday, Oct. 24

Headmaster David Dini and his wife, Nancy, open their home for a community rally. Seniors set up shop on the Dini's front lawn and distributed food and drinks to workers and affected members of the community.

For the first time since the storm, power is restored to campus.

Sunday, Oct. 27

The Class of 2024 delivered an assortment of meals and treats to on-campus workers.



Wednesday, Oct. 30

Classes resume on campus for the first time in ten days. As a part of the special schedule, faculty members and students gather in Spencer Gym for a convocation featuring remarks from Headmaster David Dini, Rev. Stephen Arbogast and Student Council President Taylor Hopkin.

As classes began, repair work continued on campus. Hicks Gym remains fenced off, and roofing workers continue to repair buildings across the northern part of the school.

Monday, Oct. 21

Engineers arrive at 5:30 a.m. to make assessments while teams are mobilized to begin campus cleanup and roof repairs.



Wednesday, Oct. 23

Participants in the fall production of 1776, led by Tony Vincent Fine Arts Department Chair Marion Glorioso-Kirby and Choir-master Tinsley Silcox, learn the musical will be relocated due to damage in the Black Box Theater. Rehearsals – and ultimately the production – were held at NorthPark Presbyterian Church.



Friday, Oct. 25

Led by Community Service Board co-chairs Christopher Wang and Toby Nwafor, over 15 Marksmen delivered hot meals from Central Market to homes in the affected neighborhoods surrounding the school. The meal distribution lasted from 7:30 a.m. to 2 p.m.

Varsity football plays their Homecoming game and celebrates their senior night at the Greenhill School. The field and its surrounding area was decorated in blue and gold. The Lions were victorious, beating the Hornets with a score of 25-0.



Tuesday, Oct. 29

Faculty members convene on campus at 1 p.m. for a meeting. A special schedule is announced for Wednesday.

Bouncing back

From the moment they heard of the damage the campus sustained, David Dini, John Ashton and Suzanne Townsend were on the phone. Now, their challenge is to bring school back to normalcy.

Job descriptions for positions like headmaster, associate headmaster and chief financial officer certainly can't be simplified into a few short phrases.

Among their extensive duties are to lead the school, provide a face for the institution and keep the books balanced.

And for David Dini, John Ashton and Suzanne Townsend, their jobs now have yet another line. A line that nobody in their position has had since the 1940s. A line that will be on their job descriptions for the foreseeable future. A line that will further etch their names in the school's history books:

Rebuild the campus as we know it.

•••

In a crisis situation like the one experienced on campus, Dini appreciates the plans in place for these circumstances while also understanding there are going to be times to break those rules and plans.

"You follow the manual, but you also have to have instincts about knowing the circumstances," Dini said. "I think this is where we've got a very experienced team that knows the school, we know one another and we trust one another. We would do anything and everything to protect the school, the people that are associated with the school and the larger community. That's where having the plans, having done the planning and thought about the planning is where you really get to test it in a circumstance like this by having to accomplish a lot in an incredibly short period of time and do it safely and thoughtfully."

Throughout the confusion of Sunday night, messages and photos were shared about the state of the campus.

But one question remained constant. *How is the path to manhood statue?* Ashton understands the importance that the statue remained standing.

"We all have gravitated to the statue because I think we share a sense that it stands for what we're about, and if it stands, we stand," Ashton said. "It's true north in a sense that when disarray or devastation or tragedy happens, we go there, and we orient by the fact that that's still there. It's a powerful thing."

Seeing the Path to Manhood statue still standing after the storm, Ashton could only smile and appreciate what it has come to symbolize for the whole school.

"That means everything. After wandering aimlessly through Sunday night and into the dawn of Monday, I knew that I needed to see the statue," Ashton said. "The statue has come to symbolize so much more than I think we ever could have anticipated. We talk about the statue being the mission. Older boys caring for younger boys and helping a boy move towards becoming a man with a strong character."

In New Orleans, Dini received messages from Wallace Hall '80, a longtime trustee, parent of three graduates and partner in many projects on campus, who was walking the campus giving updates. Through all the damage, Dini found comfort in one of the final messages Hall sent that night.



"This is the best. He said, 'The lions at the entrance to Hunt Field. Unimpressed. Path to Manhood statue. Undaunted,'" Dini said. "And the fact that the statue sits down there, just like it did last week without a blemish, it means everything. It has come to symbolize who we are. It's a sign of strength. It's saying we're down, but we're going to work to pick up the pieces back together and going to be stronger than ever."

Likening this tragedy to when the school burned down in the 1940s, Dini spoke with Mary McDermott Cook — the daughter of former board president Eugene McDermott — to reflect and ask: *If they came back 80 years ago, why can't we?*

"She called to check in and just to express her support and reflected back on the 1940s when the school burned to the ground," Dini said. "People rallied together and they picked up the pieces and plowed forward, got better, stronger and grew from it. I said, 'You know your dad encountered some significant challenge and difficulty when he was leading the school and managed to carry us through with others.' It was a reminder that we are part of a much larger continuum."

When it comes to moving forward as a school, Dini, Ashton and Townsend see the recovery in two phases: a practical building standpoint and a community standpoint.

"From a building standpoint, we try to do everything very deliberately here," Dini said. "Ironically, we have been in the midst of planning for the next 25 to 50 years of the campus, so none of the decisions about where we go from here will be made in isolation about the campus, and even some of those conversations this morning will be guided by long-term thinking and long-term stewardship of the campus. Obviously it's devastating to lose Hicks but that's the one building that we won't have access to."

The opportunities for new spaces along the fine arts area as well as a new gym comfort Townsend from the support she has already seen.

"We really have some opportunities to think about how we approach the rebuild," Townsend said. "The board will be great."

From a community perspective, Ashton encourages its members to realize nothing is going to be normal and to adapt around that reality.

"The year forward is not going to be a normal year," Ashton said. "It will continue to be a strong year, perhaps even stronger in ways that we can't predict right now just because of the strength of the community. I also think just watching people, and hearing from folks, there is great resilience, creativity and innovation. I have great confidence in the community

to continue to be even stronger and more focused on the things that matter most as we always have been."

For the future, Dini imagines a deepened and reinforced mission of what the school is about and stands for.

"We're certainly all buoyed by great confidence and optimism about the future, not only for this year but for years to come," Dini said. "That we will be a better, stronger school and that our mission will be amplified and reinforced and deepened and we will learn from and grow from it and hopefully to the benefit of you and your classmates but to our future classes of marksmen."

Serving as a place of unity for Townsend, there can only be a continued sense of closeness and support for every person that has a connection to 10600 Preston Rd.

"Over the last couple of years, this has always been a place where there's such a sense of community and belonging and unity," Townsend said. "That just makes us stronger going into this. I think we feel even closer."

Getting used to the new feel of the campus and the surrounding Preston Hollow area won't be easy for students, faculty and staff, but Dini knows in time, there will be a sense of normalcy that will return.

"We've had that experience with others that have come on campus that respond in a way that we have grown accustomed to the changes," Dini said. "That will take a little bit of time, so you and your classmates, continuing this great tone that you already have this year, it will be so important. I have every confidence that you will. Getting back to routine and a sense of normalcy, there's going to be differences and there you know they'll be work that will continue to go on as we continue to repair things."

For a week and a half, Townsend waited for the day that students and faculty could come back on campus together once again and move forward as a whole community once again.

"Especially when you're experiencing dislocation and feeling of strain and emotion, this is home right for all of us," Townsend said. "We all share that equally different ways, so we want where you want to feel whole again. It doesn't feel whole when you guys aren't here."

"And this is different in that you you're going through a lot of emotion and strain and you know you really long for that sense of connectedness."

"We'll work together and we'll support one another. It will be really important to deepen the sense of connection and community we have that is so strong already."

Senior's family quick to service

by **Colin Campbell, Wallace White**

As the tornado ripped through campus on the evening of Oct. 20, its most notable impact was on roofs across campus. Bricks were strewn across the Quad. Copper plating was scattered among the mess of uprooted trees. Holes the size of cars were present in several buildings.

For one family, this roof damage became an opportunity to serve the school in its time of need.

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Catherine Awtrey, mother of senior Wyatt Awtrey, is the president of Texas Roof Management Incorporated, a company that performs re-roofs, maintenance, service and sheet metal for all types of buildings.

In the past, the company has done repair and maintenance on existing roofs at the school and recently installed the roof for the new Winn Science Center, including the distinct copper dome above the planetarium.

According to Catherine, the company was quick to reach out to the school after the tornado occurred. Work quickly followed.

"Our director of operations called at 5:30 a.m. Monday morning on his way to work asking how we could help," Catherine said. "We readjusted our other scheduled work and deployed as many people on-site as we could Monday, approximately 45."

To properly address the extensive roof damage across campus, Catherine increased the number of on-site workers to 70 for the school her son has attended for 12 years.

She says the company was not worried about an official contract.

Once they started, the team worked quickly in anticipation of further storms.

"We were effectively in a triage mode

trying to make all the buildings watertight before a forecasted rain for Thursday of that week," Catherine said. "We were doing everything possible to create watertight roofs, which varied depending on the extent of the damage. In instances where no roof decks existed, all we could do was put temporary tarps across the roof areas."

There is still work to be done for the company.

"All repairs that have been completed are temporary repairs," Catherine said. "The next steps are to work with Beck and St. Mark's to prioritize a permanent repair plan for the damaged roofs."

WELCOME
Greeting students for the first time since the tornado, Dini (right, in foreground), accompanied by Townsend and Ashton, addresses the school as part of the convocation Oct. 30, the first day back for students after the tornado struck.



WORK AHEAD
"We just focused on taking care of the school to mitigate future damage. As the service and leak repair provider of St. Mark's roofs, we felt a professional and personal obligation to help in this challenging time."
—Texas Roof Management Incorporated President Catherine Awtrey

Priority one: the community

Instead of focusing on their own losses, Marksmen decide to provide meals for those affected by the tornado.

Four days. Most people would still be concerned about taking care of their own homes and families just four days after the tornado struck. Most people would still be cleaning their own houses and lawns and the debris left over from the storm.

Most people would prioritize their own wellbeing over that of their community’s just a few days after a crisis like the tornado.

But Marksmen aren’t most people. With most of the shops in the Preston Royal Shopping Center rendered inactive and some even destroyed by the tornado, many workers and people cleaning debris and their houses would have had to commute a lot farther than normal just to get a bite to eat, slowing down the process of rebuilding the community greatly.

So for three days, starting on the Thursday after the tornado, fellow Lions, along with other members of the Preston-Royal community, decided to step up and pass out free food to anybody who needed it through the mobile kitchen HEB set up at the corner of Preston Road and Royal Lane.

Senior Nick Kowalske was one of a few Marksmen who decided to take part. In the morning, some groups went with shopping carts and distributed cleaning supplies and food by going door to door. Even a scout group of some kind went around helping to clean up debris. But Kowalske decided to use his truck to carry and distribute food to the workers in the area instead.

“I brought my truck all the way into the Central Market parking lot where HEB was set up,” Kowalske said. “I had to go up to the police officer and have him move the blockade so I could get through. For breakfast, we picked up meals and put them in the car and then drove out past the blockades and into the neighborhoods.”

Anytime Kowalske saw people on the streets while driving on the road, he would stop to offer them something to eat.

“Essentially, every time we saw workers or people walking, we would ask if they wanted breakfast,” Kowalske said. “We did that until probably just about 11:30 a.m. At 12 we started the same thing but with lunch.”

At first, people were hesitant to accept the gesture of goodwill, not wanting to impose on

STORY Paul Sullivan

anyone but after finding out that Kowalske was passing it out for free, they were glad to take advantage of the opportunity.

“When we offered the food, a lot of people said no,” Kowalske said. “But we were like, ‘it’s completely free,’ And they were like, ‘Oh, I’ll take that’. A lot of people were just really excited that someone was out there trying their best to support the community.”

Kowalske, who worked both the breakfast and lunch shifts, was able, with his group, to distribute around 150 meals to the area, greatly saving the amount of time workers in the area would have spent had they had to take time off to visit restaurants for meals.

“The workers would have to take a break to go get lunch,” Kowalske said. “Getting in and out of the neighborhood is really hard, so they would lose a lot of work time. But having meals brought to them gave them the chance to stay in the neighborhood and not lose that time to commute in and out.”

Marksmen who participated in passing out food even got a special treat, courtesy of HEB.

“The owner of HEB was there, and he came and met all of us and we got to take a picture together,” Kowalske said.

Kowalske was just happy that he was able to make such a positive impact on his community after seeing the devastating impact the tornado had on his neighborhood. Kowalske enjoyed the feeling he got helping by handing out food and brightening other peoples’ day.

“The tornado was pretty close to my house and just seeing the impact it had was really powerful and I just wanted to do anything I could to get out and make a difference,” Kowalske said. “It was definitely really nice to see the smiles on people’s faces when we gave out food.”



HELPING HANDS

Just days after the tornado hit, Robert Pou, Sam Morgan, Jackson Singhal and Nick Kowalske helped deliver meals to workers.

Living with the new norm

After the hundreds of class messages, photos and the three trips I made to campus that week, nothing really started to set in for me until 3:07 p.m. on Friday Oct. 25. Staring in absolute shock as I sidestepped pieces of glass and stray nails from the events of Sunday night, I still couldn’t believe everything that I saw at 10600 Preston Rd. and the surrounding community.

The photos and GroupMe messages couldn’t convey the gravity of what happened: the damage to Hicks Gym, tennis courts, choir loft, bell tower, chapel, Decherd Performance Hall, the black box theater and some broken windows here and there. I felt numb, scrolling through the dozens of photos and horror stories of houses being destroyed or lives almost lost as I sat in my bed, too nervous and anxious to sleep.

At 3:07 that Friday afternoon, I walked into Penson Gym at Hockaday. Getting ready for our volleyball homecoming game against Greenhill, the images of the damage kept creeping up from the back of my mind, but I tried to push them out. They brought back that same nervous and anxious feeling I had that Sunday night.

As I came around the corner, the sign hit me straight on as I looked up from my phone and paused my playlist on Spotify.

St. Mark’s Hockaday — Strong Together. I stood there and tears I knew I had but could never get out poured all over my face. I walked in the gym, and instead of seeing the Hockaday net that I have seen dozens of times, our Associate Athletic Director, Josh Friesen, had replaced it with the restrung net from Hicks Gym that remained standing despite all the damage. The pads on the sides were replaced with the beaten and torn up St. Mark’s pads that still smelled like Hicks Gym. And the senior portrait shots, the ones that I thought were gone forever, were reprinted and strung along the north wall, reminding me of the three games I had left before our conference championship, wearing the blue and gold jersey for the last time.

At 4:30, those same tears came back. Huddling up before the game, I reminded everyone on the court about how this was so much more than just a game. It was a moment when members of the community could come together to forget the devastation of the storm. It was a moment when people could be surrounded by others, bringing back that sense of normalcy that we all desperately needed.

I told my teammates that this game wasn’t for us. It was for the workers who have made the campus their home the past few days, sacrificing their time and energy to make sure that students and faculty could return to campus as soon as possible. It was for the parents, students and alumni who dedicated the next few days to serving the greater Dallas community by delivering countless meals, canvassing homes and volunteering to clear yards. And it was for the families whose houses were damaged. Families with no roof to live under.

Through all of this catastrophe, St. Mark’s was just one site of destruction, and we made sure to keep that in the back of our minds. While the school initiated a ready plan for repair, we were cognizant that others in our community needed help and so began our outreach to other communities. Thousands of other homes across the Dallas area were destroyed, and Marksmen made sure to do their best to take care of their greater community by volunteering to help the DISD

schools in need. Organizing a fundraiser for those schools who faced many challenges, members of our community created “Dallas Strong” shirts, rewriting the definition of community to extend even further.

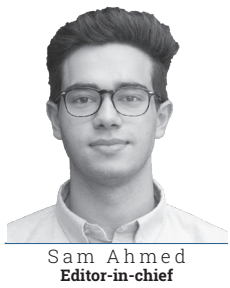
That whole night, members of Greenhill and Hockaday did everything they could to make their gym and fields feel like our home. As we finished the three-set match, we shook hands with the Greenhill players and immediately exchanged expressions of concern and support for both of our communities. As I walked out of that gym, a sense of relief came over me to see a smile on the faces of every person in those grey and green Hockaday stands that night.

But I still wanted things to go back to normal.

I wanted to be able to put on my blue shirt, grey shorts, white socks and black Nike tennis shoes and go back to the Friday edition of AP Economics or production week in the journalism suite or eighth-period calculus.

But the reality is that things are going to be different at St. Mark’s and across Dallas, and I’m okay with that. We can never return to normal, but we must continue on whatever path this new normal takes us. It’s a new normal that will unite us and the Dallas community like we have never seen before, extending helping hands further than we ever have.

Change — even when it’s unexpected — can be a beautiful thing.



Raising money for others

T-shirt fund-raiser to provide funds for Dallas ISD, city of Dallas

Toby Barrett: Who started the initiative with the shirts?
Nancy Goldberg, Student Store manager: The seniors came to me. Jack Trahan and some other guys wanted to do something to support the Dallas Fire Department and DISD because the fire station at Preston Royal and some of the schools were destroyed.

TB: How did you make the shirts?
NG: We worked together and designed a t-shirt that says 'Dallas Strong' with the path to manhood sculpture. On the back, 'Ever greater may you rise' from the alma mater.

TB: Why did you feel it was important to start this fundraiser?
NG: We were very lucky, everything was fine here, and we were just happy to help. Greenhill hosting homecoming was so generous and supportive. Hockaday allowing the seniors to go there was just wonderful. I love the posters and the St. Mark's heart. It's just so wonderful for everybody to support."

Aaron Thorne: What kind of fundraiser did you start?
Canyon Kyle '18: I started a GoFundme to help support the families in our class whose houses had been damaged in the tornado.

AT: How much money have you raised?
CK: \$580 through Facebook and our class GroupMe.

AT: Why did you want to start the fundraiser?
CK: I started the fundraiser because one of the guys whose house was destroyed had done so much for our class over the years.

This Marksman always put his classmates first. He even tried to keep his loss from the storm quiet and not let others know how significant the loss to his family was because he did not want people to worry. For this reason, I knew that our class needed to do something for him and others families in the community.

AT: What were you feeling when you saw the damage that the tornado did to the community?
CK: When I first saw the tornado damage to SM I was astonished. At SMU, we were told that there was a tornado warning and that we needed to move to the first floor away from windows. We had no idea how serious the storm was. Then I

saw the pictures of the damage to the Preston and Royal area as well as to SM. I was shocked. The area looks like a war zone. As you see all the destruction, your heart sinks because you know that the place you invested so much time and emotion



Shirts, available in Student Store.

may never look the same. When I drove past the campus, the most shocking part was the view of the school without trees. It was as if the identity of the SM campus was gone.

Those trees represented the growth of St Marks over the years and how far the school had developed. When I looked at the campus from Preston Road, I saw a school that needed a new resolve.

I know, though, that the St. Mark's community is strong and will overcome. That is what makes the school so special.

Open house

At a time when countless people lost their homes, others opened up new ones. Students and schools alike offered their homes and facilities for student use.



LIGHTS ON Decherd Performance Hall, damaged by the storm, served as the center for the dramatic arts. Seniors Will Mallick invited many fellow actors such as seniors William Gonzalez, Thomas Loose, Eli Yancey and junior Jack Genender to stay with him during this time.

Camp Mallick? Senior offers refuge for six classmates whose homes suffered severe damage

The last place he wanted to spend his Sunday night was the pantry, stuffed in with his four family members, tucked away from the shattered glass that whirled through his home.

The first tree fell away from the house. The second one didn't.

The roof, broken by the heavy trunk, let water seep throughout his home.

And he's not alone.

...

Senior Will Mallick returned home to Preston Hollow after an evening at Young Life Sunday night. Then the noises of the storm came, then warning, then the sirens, so Mallick and his family escaped down to their shelter.

"We're dead in the middle of it," Mallick said. "And we can hear whizzing in our neighborhood. The sirens stop, my mom goes out to check, but I stay in. I didn't think too much of it because I wasn't hit, but then our GroupMe starts blowing up, and I start seeing pictures and calling friends, and I called [senior] William [Gonzalez] and I said 'hey, are you OK' and he said no."

Gonzalez, the first person to stay the night at Mallick's house, had been displaced from his own damaged home.

"I picked William up that night," Mallick said. "He and his dad walked over because they didn't want to drive, so I met them halfway, and I picked him up to charge our phones. So the first night it was William and me."

The next day was scheduled to be a jersey-out in spirit of the upcoming homecoming game, but as an endeavor for a hint of normalcy, seniors hosted a grade-wide celebration of spirit.

"Coming back from that," Mallick said, "I had [seniors] William [Gonzalez], Luke Evangelist, Thomas Loose, Ricky Rodriguez, Aaron Thorne, Eli Yancey and myself because it was either that their power was out, or their house was hit or it was hard to get back to their house from where we were. It was a rotation of those people until Thursday when [junior] Jack Genender stayed at my house."

Genender's house was hit by one of their trees from their backyard which caused roof and water damage

throughout the house. While he has now moved back into a temporary home, he stayed with junior Michael Vanesko for the first few days and then moved in with Mallick after Mallick offered Gendender a place.

"It means the world that Michael and Will allowed me to stay with them during the time of reconstruction. Being able to stay there along with other kids with no comfortable place to stay was fun and made me feel secure in a time that I did not," Gendender said.

For those stranded in different parts of the city, a casual communal reception helped nurture the idea that while the storm affected everyone in some way, it also united everyone in another way.

"One night, William and I went to the Maverick's game," Mallick said, "and my mom had set a key on the ledge, and a bunch of people were just playing XBOX. There was no real plan involved, no invitation or requirement for help. And it was really fun. I haven't had a full house in a while, so it was a lot, but the idea of providing a place for a bunch of people affected by the storm to stay was really heartwarming."

STORY
Jamie Mahowald, Luke Piazza

PHOTO
Dave Carden

On the scene

From those who helped and were helped over the last few weeks



Jack Trahan
Senior who worked at Hockaday while campus was closed

"I really appreciated it because it gave us access not only to the college counselors but also to a sense of normalcy that allowed us all to get as much as we needed done."



Veronica Pulido
Director of College Counseling

"It definitely has been very reassuring and affirming that there are people who are concerned with our well-being. On top of that, they have been really accommodating, trying to do what they can."



Dr. Karen Coleman
Hockaday's Eugene McDermott Head of School

"It was absolutely clear from the moment we came together Sunday night that we needed to open our doors and do everything in our power to help our peer schools. To me, it was so obvious it was our responsibility – it was just the right thing."

Hockaday, Greenhill quick to offer assistance – offices, playing fields, venues

With Hicks Gym destroyed and Hunt Silcox Field rendered unusable after the tornado, varsity Lions volleyball and football teams lacked practice spaces. Or, really, any spaces at all.

After the initial onslaught of "Is everybody okay?"s and "Where do we live now?"s came the pressing matters of how we make our debut back to normal life. For the first week after the storm, a return to academic and athletic life seemed irrevocably halted: classes ceased, and the varsity volleyball game and homecoming football game could no longer take place on our campus.

But they could still happen.

...

"After assessing the damage, it became evident that we needed to look at alternative options for our athletic practices and competitions," Athletics Director Sean Lissemore wrote in an email. "Communication between schools began almost immediately, and we were so grateful to know that we already had several generous offers from schools who wanted to help our athletics program."

Hockaday hosted the Lions volleyball game in the Penson Athletic Center and accommodated cheerleading and Lions

football practices. Greenhill also hosted the Homecoming game at Brinkmann Field.

"[Hockaday] lined a soccer field so we could have football practice and moved their teams around to work with our schedule," Lissemore wrote. "Greenhill graciously offered to host our football game and showed incredible hospitality by allowing us to have our Homecoming on their field."

"They even made it feel more like a home game for us by painting the field with our school colors and giving us permission to hang St. Mark's signs and banners."

Administrators quickly began coordinating with Hockaday to remedy the situation, and Hockaday's Head of School Karen Coleman approached Headmaster David Dini the day following the tornado to offer assistance and let him know that no need was too big or small.

Hockaday allowed College Counseling Director Veronica Pulido and college counselor Casey Gendason to operate in its facilities, opening its seventh and eighth-grade commons as college counseling lounges for students the week after the storm.

"We wanted to make it as easy as

possible for families to begin to get back on their feet and not be stressed about, 'How am I going to get to school? What if I'm late? Where's my uniform?'" Coleman said. "We wanted to provide a space where kids could come together, process together and be themselves."

How an institution reacts in situations of crisis, Coleman says,, transcends the routinely academic procedures of protocol.

"Our kids are not going to remember what test they took or what homework they had to complete," Coleman said, "but they are going to remember, 'I felt safe. I was with my friends. I could talk about what happened.' For many, coming to school was a place to begin to try to return to normalcy."

Lissemore expresses his gratitude toward Hockaday and Greenhill for their efforts to assist the school and appreciates the sense of solidarity.

"I am very impressed by the way our community has responded to this situation," Lissemore wrote. "Everyone has rallied together, and the amount of progress made over a short period of time is remarkable. It is truly a testament to the strength and the resilience of this community."



AN UNLIKELY OFFICE Sitting in the seventh and eighth-grade commons at The Hockaday School, Interim Associate Head of College Counseling Casey Gendason looks over seniors Matthew Raroque's and Brett Marsh's college essays.

STORY Jamie Mahowald, Sai Thirunagari
PHOTO Sally Hudspeth, Hockaday School

DRAMA

The show must go on

Rehearsals for the musical continued despite the Black Box Theater sustaining heavy damage from Oct. 20's tornado.

On Oct. 21, less than two weeks before the St. Mark's and Hockaday musical, 1776, was set to open, Tony Vintcent Fine Arts Department Chair Marion Glorioso-Kirby was told the Decherd Performance Hall and the Eamonn Lacey Black Box Theater had been hit badly by the tornado and would not be available for the production.

Glorioso-Kirby immediately began trying to find a new location and eventually found NorthPark Presbyterian Church. But the work was just getting started. Over the next 12 days, Glorioso-Kirby and the cast worked tirelessly throughout the period without classes, rehearsing in the church and moving the sets and lighting equipment.

The cast performed the musical Nov. 1-3 to a new theater packed with students, teachers and family. Here is what the director, actors and actresses of 1776 had to say about the unusual circumstances and their experiences on the stage:

STORY Henry McElhaney, Eric Yoo PHOTOS Jerry Zhao



MUSICAL MADNESS Senior Brett Marsh, junior Vikram Ekambaram, sophomore Enoch Ellis and senior Eli Yancey act out "But Mr. Adams" in the school's production of 1776.



"It wasn't a perfect show, they never are, but it was a good show. Our crew busted their butts to get a set up, lights up, organizing and creating props, and costumes and hair looking good. The play turned out beautifully and our experience producing this show will stay with us for a lifetime."

— MARION GLORIOSO-KIRBY, FINE ARTS CHAIR



"All of us [the cast] loved the play so much that I don't think we even considered the possibility of it not happening, especially because we have such an amazing team working with us both in the cast and behind the scenes, and I think we knew it would somehow work out."

— ISABELLA PAIGE HOCKADAY JUNIOR



"The more daunting task was getting everything moved from the Black Box to the stage at the church: the sets, props and the blocking."

— WILL MALLICK, SENIOR

BASKETBALL

Starting a new season

With Hicks Gym gone, the basketball program seeks a new home before 2021 play begins.

When senior basketball player Andrew Laczkowski first heard that Hicks Gym had been destroyed by a tornado the night of October 20, he couldn't believe that he would never play there again.

That the building where he had made countless memories would never be the same.

That the entire 2019-20 basketball season would be completely, irreversibly different.

"You don't really realize how important those memories are — how special they are — until you realize it's gone," Laczkowski said. "It's just a crazy feeling."

In the days following the tornado, the basketball program received an outflow of support from other schools and members of the community. Varsity basketball coach Greg Guiler's office, located in Hicks, was destroyed, so cross country coach John Turek offered to share his office with Guiler.

Additionally, Highland Park High School allowed the Lions to use three of their gyms for preseason practices.

"It's just really good to know that there are a lot of people in the community, no matter how much of a rivalry there is or a pseudo-rivalry there is," Laczkowski said. "It's great to know that we're all a Dallas community."

For the rest of the season, all three basketball teams — freshmen, junior varsity and varsity

— will all practice in Spencer Gym. In previous years, the freshmen practiced in Spencer, varsity practiced in Hicks and JV switched off between the two, but now Spencer Gym will be filled to its max capacity.

"In some ways, there will be a greater camaraderie in the Upper School just by virtue of the younger guys get to see the older guys play, and every once in a while they see Collin Smith dunking on someone," Guiler said. "There might be some drill integration like never before, and so there'd be just a greater sense of ownership and pride amongst the guys."

Without Hicks Gym available, the number of home games might shrink slightly, but Guiler still wants to hold games in Spencer, as he feels it is such an intimate atmosphere.

Originally, the Lions were scheduled to host the basketball SPC championship, but now Greenhill could be taking on that responsibility; however, no official decision has been made yet on the location of the SPC Basketball Championship.

At the end of the day, Guiler feels blessed for the community to not have lost any lives, acknowledging that other things are more important than a single basketball season.

"I just continue to give thanks for how fortunate the community is to have not lost lives," Guiler said. "It just felt like people were protected in a special way, and for that I'm beyond grateful."



MASS DESTRUCTION

Because of the damage sustained by Hicks Gym, the basketball team must find new ways to practice.

One man's trash...

Wanting to save elements from the destruction, two faculty members plan a memorial project using saved artifacts from the remnants of the tornado. Here are some of their thoughts.

"St. Mark's has a special meaning for you guys; it's a home away from home. Rather than throwing all this material out, if we could use it, that would be fantastic."

— SCOTT ZIEGLER, CERAMICS INSTRUCTOR

A lot of it is copper from the roof. We also have a bunch of the tree limbs, especially from the elms that were lined along Preston. There's some random objects, like part of a speaker from the baseball field, some electrical stuff."

— ZIEGLER

Ziegler's first reaction was disbelief: "I started seeing images coming through Monday morning at about midnight, and it was hard to believe."

"Both [Mr. Frost] and I were thinking of having students do individual projects," He and I also talked about possibly doing a group project where some of the advanced honors students, juniors and seniors from both classes, could come together to come up with some sort of piece as a remembrance of this event."

— ZIEGLER

"Monday morning, I started inquiring about coming to campus to collect materials, Tuesday afternoon I was given authorization. We would like to get some materials from the gym when they decide the plan."

— JOHN FROST, INDUSTRIAL ARTS INSTRUCTOR

While Frost is excited about potential for these materials to be used, he believes they can be put to a specific use:

"I think the senior outdoor sculpture project would be the most logical project, due to the scale and significance," Frost said. "The materials contain meaning and memory. However, I have talked to all of my Upper School students about reflecting on the event and their experience, so there might be other individual, smaller scale projects that incorporate the materials too."

— FROST

INTERVIEWS Han Zhang, Trevor Crosnoe

STORY William Aniol, Robert Pou



WORK TO DO
Clearing up fallen bricks from the bell tower, construction workers quickly patched up the damage.

Looking forward

When Headmaster David Dini greeted his students and faculty on their return Oct. 30, he was heartened by a sense of new routine.

I feel really energized by looking out the window and having a sense of routine and normalcy. It's a whole new normal of getting back into our rhythm. That nervous energy that you have around the beginning of the school year is now a sense of excitement and positive energy that we've got school underway again.

We certainly felt that sense of community throughout the past days knowing that there's a reason why we're all locked arm in arm to get to this point because we want to. The thing that we value most is being here together every day. There was never a sense, during that time period, that it was overwhelming.

There was always a sense of confidence that we had the right people, the right team, the right resources and the strength of community that we were going to get back quickly, and that's really affirming to try to be thoughtful and deliberate and not lose sight of what our core objectives were. We all felt a collective sense of responsibility to our mission as a school, our history, the future and all of you guys to do everything in our power to get us fully back on our feet and get going.

— Headmaster David Dini



STRONGER TOGETHER
Director of Finance & Administration Suzanne Townsend, Associate Headmaster John Ashton and Headmaster David Dini embrace after a long day on campus.



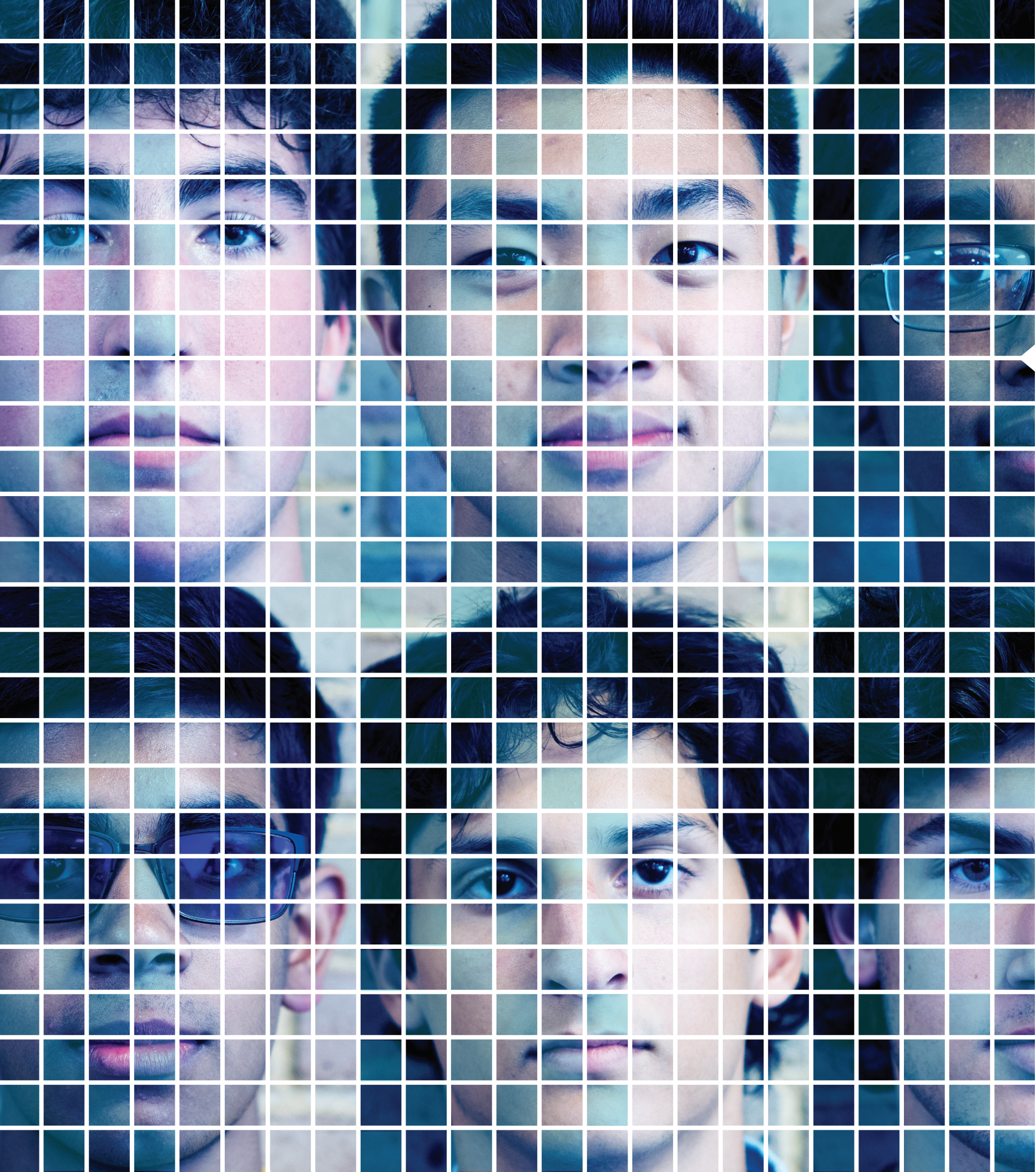
STILL STANDING Even though the west and east side walls of Hicks gym were blown out, the entire structure of the gym is still in tact.

PHOTOS Will Rocchio, Courtesy Development Office, Jason Lange



A STEP INTO 2050





THE FACES OF 10600 PRESTON RD.

► PHOTO ILLUSTRATOR Benjamin Hao, Luke Piazza

With the diverse cultures and backgrounds reflected in the student and faculty body, the evolution of our community will impact our future in incredibly varied, unexpected ways.

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FOCUS MAGAZINE, a magazine supplement to *The ReMarker* focusing on a single topic, is a student publication of St. Mark's School of Texas, 10600 Preston Road, Dallas, TX, 75230.

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WE HAVE A BAD HABIT OF LOOKING INTO THE PAST

The past is comfortable. It's unchanging and certain. It insulates us from new ideas and isolates us in reminiscences.

Worst of all, the past makes us forget about what is to come. Fixating on the past prevents us from tapping into the hopes and dreams that enable us to change the world as it is.

So for this magazine, we looked to the future.

In fields from climate change to social media, we view the future through the eyes of the Marksmen who will inhabit it.

We tell stories of Marksmen exploring a virtual reality over a sleepover, purchasing custom-printed suits at the mall and retiring into a world where the school just may have a Great-Grandparents' Day on the Friday before Thanksgiving break.

Ultimately, our search for the future led us right back to 10600 Preston Road, where we talked to a diverse group of alumni, faculty, parents and students to try and figure out where our community is headed next.

We asked them what their dreams for the future of St. Mark's were, and their replies seemed as applicable to the Class of 2020 as they did to the Class of 2050.

They realized what we hadn't — that in envisioning the future, we're able to articulate our goals for the present.

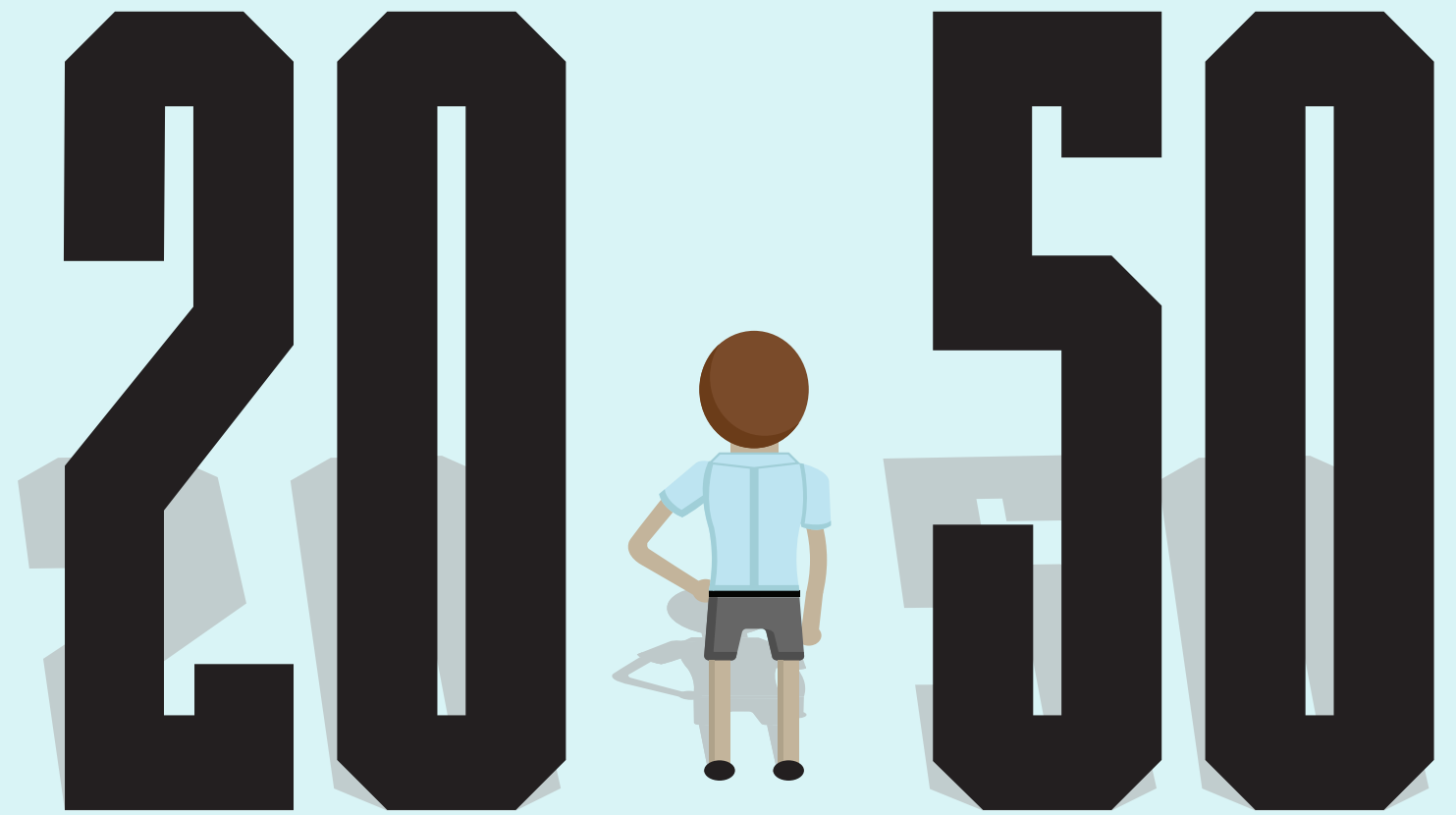
The narratives that follow are fictional. But we gave the future our best guess — by extrapolating the interviews and research we conducted about the present onto the lives of the next generation of Marksmen.

And we supported this by talking to experts in each field about what the future should look like. While they might not always be right, they have a better picture than the rest of us.

As we saw these stories develop, we were often surprised — and always inspired — by the direction the future is headed.

And all we know for certain is that it's going to be one wild ride.

► **Alam Alidina, Sai Thirunagari**



►ARTWORK Jamie Mahowald

MEET THE FUTURIST

Chances are, you've never met a futurist.

But believe it or not, it's a real profession. Meet Peter Bishop, a former university professor who has a few words to say about things to come.

With 37 years of experience in futurology, futurist Peter Bishop studies not only today's world but also scenarios to come.

After earning his undergraduate degree in philosophy at St. Louis University, Bishop received his graduate degree and doctorate in sociology at Michigan State University. He began teaching Foresight at the University of Houston-Clear Lake, a branch campus of the University of Houston (UH), in 1982 and then continued teaching at UH's main campus in 2005.

"They had already established a degree, literally the first degree in the world on future studies at the University of Houston-Clear Lake," Bishop said. "I asked them if I could take the program, and they said, 'we'd like you to run the program, actually.' [I] ran it for 30 years."

He's published two books on Foresight: *Thinking about the Future: Guidelines for Strategic Foresight* in 2006 and *Teaching about the Future: The Basics of Foresight Education* in 2012, both co-authored with Andy Hines, his colleague at UH.

Bishop is a founding member of the Association of Professional Futurists and the president of his own firm, Strategic Foresight and Development, which offers training and facilitation to businesses and government agencies. He's worked with clients such as IBM, the NASA Johnson Space Center, the Texas Department of Transportation and more.

"A formal, professional use of the future has two primary purposes: to describe the future of the world — how it could be — and to plan or influence that future — to make it somewhat better for ourselves," Bishop said.

Bishop's method of strategically looking into the future is called Foresight and consists of six steps: framing, scanning, forecasting, visioning, planning and acting. Foresight differs from the conventional way of predicting the future,

which was developed in the earlier half of the 20th century and relies on extrapolation.

"If you extrapolate, you have to assume that the model you're going to use is going to be true two years from now, five, 10, 50 years from now," Bishop said. "The assumption that model is going to stay the same for all of that period of time gets less and less valid as we go into time and as the longer you extrapolate."

Futurists who use the Foresight method take into account the fact that some assumptions inherent to a certain prediction may be incorrect and that trends might not follow the same trajectories in the coming decades.

"Rather than 'predict,' which is a word that we don't use, we forecast not one future, but many futures," Bishop said. "We have one future called the expected future, which is where we're headed. If you were to do traditional forecasting, that's the prediction you would make. But that future carries a lot of assumptions, like the trends that we studied will continue and the plans that people say they're going to achieve will be successful."

For example, to estimate the growth of and change in everyday technology, Bishop uses the image of an s-curve rather than a graph that rapidly continues to increase vertically, indicating that major changes in the field will decline over the coming decades.

"[An s-curve] goes through a fairly rapid change piece in the middle, which is the transition from the old era to the new era," Bishop said. "Eventually, it levels off. The fact that most of this stuff, if not everything, will level off is an assumption. There are people in our fields who don't believe that — they think it's going to go vertical and keep going vertical forever."

After running the Foresight department for three decades, Bishop retired from UH in 2013 and later moved to Sacramento, CA. Bishop founded and now leads Teach the Future, a nonprofit that offers tools to educators to teach their students about the future and better prepare them to think about coming changes.

"Teach the Future is trying to extend that mission to bring futures to high school students and to college undergraduate students," Bishop said.

► Portable Technology

"There are only so many things you can do with electronics in your hand. There are potentially new electronic s-curves to be had. One of those clearly is artificial intelligence."

► Entertainment and Video Games

"This could be a big breakthrough: computers acting more like people, not so much like games. The entertainment machine is going to be a lot smarter and therefore a lot more capable of interacting with us as an intelligent device rather than simply a mechanical representation of what it's programmed to do."

► Shopping

"I suspect the proportion of online purchases is still going up compared to in-store purchases. That's going to level off sometime because some people like to pick up stuff, look at it and try it on."

► Retirement

"[Retirement companies] are going to be using robots for the care of older people a lot more. There will be robots that take care of folks, bring them their meals and medication and get them in and out of bed or a wheelchair."

► Longevity and Health

"Life expectancy has leveled off. We may be at the top of the s-curve where any further effects aren't likely. We've probably used up most of the technologies we have now. I'm not expecting a gigantic leap in life expectancy."

► Transportation

"Autonomous vehicles will probably begin with over-the-road trucks. Buses will be autonomous — and then personal vehicles over time. That's going to take a lot longer than people expect. But over another generation or two, people will come to accept vehicles as having the intelligence to be safe."

► Social Media

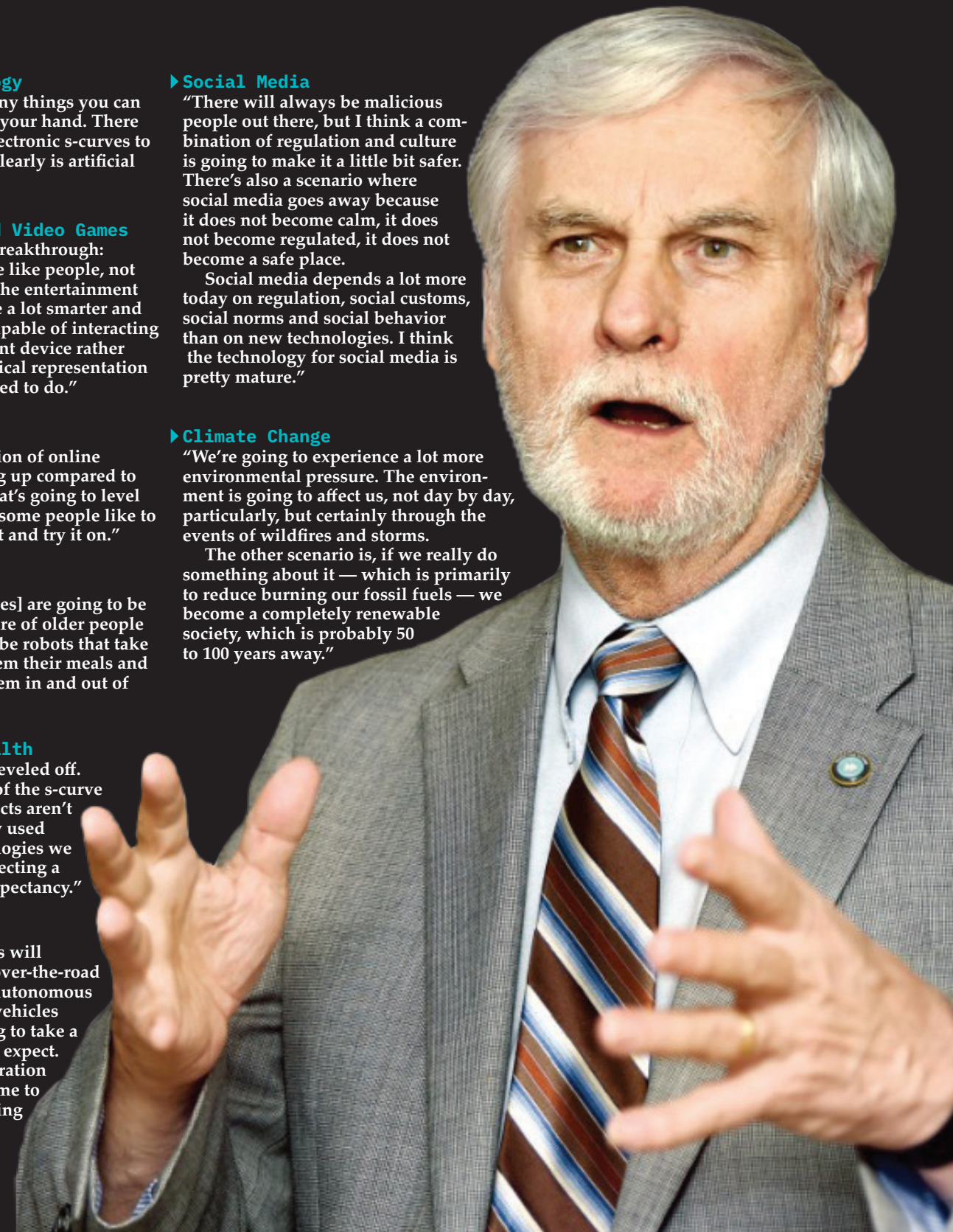
"There will always be malicious people out there, but I think a combination of regulation and culture is going to make it a little bit safer. There's also a scenario where social media goes away because it does not become calm, it does not become regulated, it does not become a safe place.

Social media depends a lot more today on regulation, social customs, social norms and social behavior than on new technologies. I think the technology for social media is pretty mature."

► Climate Change

"We're going to experience a lot more environmental pressure. The environment is going to affect us, not day by day, particularly, but certainly through the events of wildfires and storms.

The other scenario is, if we really do something about it — which is primarily to reduce burning our fossil fuels — we become a completely renewable society, which is probably 50 to 100 years away."



PORTABLE TECHNOLOGY

In the future, the devices we carry with us will become easier to use and better consolidated. But that might leave them far more vulnerable.



TECH THAT JUMPS OUT AT YOU

Sixth-grader Ronen Verma uses his smart-watch for just about everything. The Gizmo Gadget on his wrist does more than just tell the time; it sets his alarm, tracks his heart rate, sends and receives calls and allows for his parents to know where he is at all times. The only time he takes it off is when he's showering.

At the end of the school day, Verma can call or text one of the ten numbers his parents have put into the watch. He can send a pre-set text or a voice message. While he's in the car on the way home, he can look through the breakdown of his activity for the day. The watch can count the total number of steps he took, the total distance he traveled during the day and his average daily fitness level.

Verma is like the other 60 million people in America who wear a smartwatch. Wearable technology has become commonplace, with one in every ten American adults using a smartwatch, and as technology becomes more and more advanced in the coming decades, the market is likely only going to grow.

In 2019, consumers face the dilemma of having too many devices to choose from. With desktops, laptops, tablets and phones all having different functions and uses, the average digital consumer owns over three connected devices.

According to David Marks, senior lecturer in the Arts Technology Department at the University of Texas at Dallas, the uses for these devices will become more and more consolidated.

"I see our portable device like phones being an all-in-one," Marks said. "It'll be a tablet. It'll be a laptop. It'll be the phone, all-in-one."

In fact, by 2035, Marks believes cell coverage will be extinct. He believes Americans will be

Holographic devices have long been popular in science-fiction movies, but it's yet to be seen whether this type of device will take off in the real world.

“Companies can learn things about you that no one ever could before. They can create profiles, and you can be denied certain aspects of insurance or health care. That's only going to get worse, especially with wearable tech.”

DAVID MARKS
Senior Lecturer,
Department of Arts
Technology at the
University of
Texas at Dallas

connected through a city-funded or nationally funded Wi-Fi streaming network that will make communication even more accessible for sixth-graders like Verma.

Even more intriguingly, Marks mentions the possibility of the extinction of keyboards and typing as digital users know it today.

As the technology of voice recognition gets better and better, the gap between the effectiveness of typing on a phone and typing on a computer might be erased, furthering the consolidation into one device.

However, increases in communication will come with their own caveats, for both handheld devices and wearable tech. One major issue will be privacy. Today, the risk of cyber theft and data mining is a huge concern, but this problem may be even more prevalent in the future.

"Companies can learn things about you that no one ever could before," Marks said. "They can create profiles, and you can be denied certain aspects of insurance or health care. That's only going to get worse, especially with wearable tech."

By 2040, insurance and healthcare companies may be able to buy the personal information that Verma's smartwatch stores about him. The

companies may have access to statistics, including a patient's heart rate and blood pressure, which they can use to deny insurance. A health-care company may be able to learn things about consumers that it never could have before.

Marks says this major issue is taking root today. With younger and younger users having access to more and more technologies, they are increasingly giving away their right to privacy by agreeing to the terms and conditions without reading them.

"[Companies are] getting information that the average 13-year-old or 15-year-old isn't aware they're giving up or isn't aware of the implications of giving that information up," Marks said.

Advancements in the wearable tech industry will invade the privacy of young users like Verma especially.

"Wearable tech has an even greater opportunity to learn more about a person," Marks said. "I don't think that we can put Pandora's box back together. It's been opened, and already people are giving up their personal information. They don't know it just by wearing the Apple Watch or by wearing the shoe that has some computer chip in it."

Ultimately, Marks believes it will come down to whether the consumers of the future will

choose the convenience of portable technology or their right to privacy.

The responsibility to comb through the tedious terms and conditions should fall on adults, Marks says, but even adults don't read the fine print.

"An adult is supposed to know the consequences, and sometimes that isn't even true," Marks said. "Adults just click yes on the agreement instead of reading it, and they don't even know what they're giving up."

According to Marks, it is this cycle of negligence that will lead to consumers in their teens and younger to give up their precious privacy without even knowing it.

Despite the bleak outlook for the years to come, Marks hopes to see an increase in the level of technological responsibility, by both consumers and producers, so that the Ronen Vermas of the future can enjoy technological advancements in portable technology and communication without facing the risk of their personal information being sold.

"The question will be raised: How much personal information are we willing to give up?" Marks said. "By raising these questions, we will be able to control the actual progress of wearable tech in the future."

▶ A GLIMPSE INTO THE FUTURE

Consumers can expect radical changes in the portable devices they interact with day-to-day. Here are a few technologies being developed today.



MICROSOFT HOLOLENS

The Microsoft HoloLens directly creates a wearable augmented-reality headset. Currently, some virtual-reality headsets are commonly used for different applications. The HoloLens creates a real-time display over whatever the user is looking at. The applications of the HoloLens range from designing a full scale building layout in 3D to visualizing a surgery before it takes place, and more applications will appear as developers continue to create new apps. While the HoloLens is not yet for sale to the general public, it is available for commercial use and for developers, and the price currently stands at \$3,500. As technologies like the HoloLens continue to grow and become increasingly common, the prices will drop and application will increase tenfold.



TABLETS

Laptops and tablets have slowly merged into a very similar device. Currently, many laptops can serve as tablets and many laptops have "tablet modes." As they share many similarities, it is possible they merge into one device that can serve as a touchscreen tablet as well as a powerful laptop capable of handling large applications.



SMARTWATCHES

While smartwatches were created about 20 years ago, only recently have smartwatches become extremely smartphone-like. Tech companies are adding new features like voice messaging, fitness tracking and even a built-in electrocardiogram. These smartwatches allow constant connection through notifications and Bluetooth link to a nearby phone.



5G NETWORK

The computing power of smartphones has skyrocketed over the past years, while the size has dropped with an increase in portability. 5G technology, which is currently releasing in various cities across the country, will exponentially improve on the existing 4G LTE network that the majority of phones connect to; the new network will support increased download and upload speeds and connection latency will drastically decrease.

▶ **STORY** Jack Davis, Sid Vattamreddy, Darren Xi **PHOTOS** Courtesy Creative Commons

SOCIAL MEDIA

THE INSTAGRAM OF 30 YEARS AWAY?

With over 1.7 billion people on social networks today and the global population steadily growing, the dependency on social media for the younger generations are bound to increase. And along with this change, social media may evolve to take a bigger role in our lives and incorporate new technology such as holograms in their interfaces.



By 2050, social media could infiltrate every aspect of our lives. For a Middle School student, what will this development entail?

►STORY Christopher Wang, Eric Yoo, Cooper Ribman GRAPHIC James Shiao

EDITOR'S NOTE: Just as MySpace was 'the thing' decades ago, Facebook and Instagram — hugely popular today — may be relics of the past in years ahead. Here's a look at how we feel social media may change — and what the world of holograms and virtual reality might offer.

The year is 2050, and current eighth-grader Gavin Holtby's future son, George Holtby, has his 13th birthday quickly approaching. He wants to make sure that all of his friends know about it. He sends out special virtual invitations through an advanced form of social media where communication, entertainment and other activities are streamlined that he and all of his friends use. When they open his invitation, digitalized confetti pops out from the screens of their advanced smartphones, which draws an awed reaction from all of his friends.

His friends open a new document which rises up from the screens of their phones and tablets,

“

In just the last five years, social media tools such as Facebook, Twitter, Wikipedia, LinkedIn, blogs and far more have transformed how people communicate with friends, keep up with news, do business and express their opinions on the companies they buy from. People can no longer hope that their misdeeds will remain hidden — their behaviors and past actions will be clearly visible to all.

ROSS DAWSON
Leading Futurist, Keynote Speaker, Entrepreneur, Bestselling Author

and they use their fingers to draw up a message accepting the invitation. They swipe the document in the air to the right, and the message is sent back to Holtby to open. Upon seeing the notifications from his friends replying to his birthday party invite, Holtby cracks a smile and begins planning for his party.

But Holtby doesn't even have to search for the venue where he wants to hold his party, the food provided or the goodie bags he plans to give out to his friends — social media already knows what he wants.

In this future age, social media is ultra-intelligent, can tell that Holtby's birthday is coming up and helps prepare everything that he may want at his birthday party. Thus, with a little searching and few button presses, Holtby has his entire birthday party coordinated and ready to go the following weekend with the assistance of his social media accounts' knowledge of his friends and preferences.

At school, the day after Holtby sends out the invitations, he mentions the party just in passing — they know that all of the details will be communicated through social media. Notifications will provide updates to the party for Holtby's friends, so there's no need for him to talk too much about it.

The weekend arrives after a long week of school, and it's time for Holtby's party. He

and his friends gather around a table with an LED screen as a top, and it pops up a virtual game. They put on a headset and body suit that immerses them into a virtual world that's a part of social media, which encompasses various aspects of daily life, including games and activities that children and adults play. There's little actual human-to-human conversation between Holtby and his friends — they simply chat within the virtual world that they are playing in as the main feature of the party.

Holtby and his friends spend one, two, three, four hours within the virtual world. Finally, the party comes to an end and the children log out, and they hug one another — the first instance of interaction between the kids after they first met for the party.

Holtby posts online 3-D videos of what they saw in first-person view within their virtual world, the games they played and the funny moments. Holtby thanks all of his friends with a 3-D graphic planted within the post, and all of his followers can now see how awesome his party was.

Later, Holtby's friends respond to his post by publishing their own posts from the birthday party. One of his friends, Jeffery, posts a point-of-view action video from his virtual world perspective of the group building a castle together and then later destroying it by pouring lava on it.

Another one of his friends, David, posts a photo of them making a cake for Holtby in the virtual world with his name inscribed on it with icing, then presenting it to him with the rest of his friends in the virtual world. Alyssa posts about the virtual soccer game that they played together. All of these posts are shared on the holographic, incredibly realistic social medias for Holtby, his friends and all of their many followers to view. Yet, none of the posts show the group celebrating the actual birthday; rather, they were all immersed in the virtual world and barely spent any time out of it during the party.

As the case for many kids in 2050, Holtby and his friends are surrounded by social media to the point that they barely recognize human conversation as a necessity. They talk about everything, including the birthday party, over social media even more than they do in person, and many aspects of their lives such as free time and group hangouts seemed to be coordinated online rather than in person.

Even more common than ever, they see their siblings absorbed in social media and do previously person-to-person interaction such as asking others to the homecoming dance over social media rather than in person.

In some ways, social media has made life easier for Holtby as well. He can talk with others by pulling up live feed holograms on his phone out as a type of real life projection. Holtby can communicate easier than ever with his friends, whether they be five minutes or five hours away, because social media has made connection over its platform more accessible and realistic than ever.

Holtby's parents often tell him about a time where classes at school were taught by a human teachers, not everyone was connected through social media and human interaction was highly valued. However, this notion is difficult for young Holtby to fathom, as social media in 2050 is all that he knows.

SOURCES: Ross Dawson, Eighth-grader Gavin Holtby

RESEARCH: Omnicore, AdEspresso, Zephoria, Computerworld.com.au

► A SHORT HISTORY

Over the past 20 years, use of social media has increased at an incredible rate:

FACEBOOK



2004

1.6 billion daily users
5 new profiles created every second

TWITTER



2006

126 million daily users
500 million tweets sent a day

INSTAGRAM



2010

500 million daily users
Like button hit an average of 4.2 billion times a day

SNAPCHAT



2011

186 million daily users
3 billion snaps created every day

ENTERTAINMENT

Today, video games, film and TV are the definitive ways people consume produced media. But will ever-more-portable devices kill the industry?



With new technology, the future of gaming is constantly changing. Virtual reality is continuing to grow into a popular form of video game entertainment with increasing fidelity and decreasing costs.

STARING INTO NEXT-LEVEL IMMERSION

►STORY Sam Goldfarb, William Aniol, Will Pechersky PHOTO Benjamin Hao, Tyler Nussbaumer

Finally, it’s Friday night. And for most lower schoolers, that means a sleepover.

Fourth-graders and third-graders converge on their classmates’ houses. Moms and dads catch up with moms and dads, tell their sons to be good as the kids run upstairs together.

The boys pile onto the couch — and even before they can hit the cushions, someone’s booted up the Nintendo Switch. The boys pile into each other and toss out pairs of joycons, and within minutes, all-out chaos ensues. Kirby winds up a flaming hammer as Link aims his bow at Meta Knight, who spirals upward in an attempt to stab Samus before she can fire off her rockets. The boys laugh, they shout, they trash talk, wonder how the heck that attack didn’t hit. But they’re having a great time.

A group of middle schoolers get home from the football game — and victory royale is already on their minds. They go to their Xboxes and pull up Fortnite, grabbing their voice headsets on the way. From their own homes across the city, they match up against players from New York, California, Brazil, Russia. Their teamwork is essential to victory — and they know each other so well that their communication is flawless. Shooting and looting their way across the map, they pick up the win they set out for.

Beat down after the post-game spirit party, Upper Schoolers are winding down for the night. The ones still in groups crash at houses, and others head home on their own and climb into bed. But both do the same thing once they arrive: queue up Netflix for a movie or the newest show until they pass out.

Gary Brubaker, director of the Southern Methodist University Guildhall, a graduate video game education program, believes online virtual spaces are up and coming in human innovation for communication.

“People who can author these online virtual spaces will be just like the people who controlled the printing press, who write the narrative and define what it means to be human going forward into the future,” Brubaker said.

Pilots might practice their takeoffs and landings in extremely detailed simulations. Technicians, systems installers, mechanics and electricians could practice their projects as many times as they needed before they moved on to the real thing — before the potential to damage any real property or equipment.

But the traditional gaming experience won’t be going anywhere. The social elements of couch co-op and competitive play can’t be replaced by ever-sleeker VR gear. People will still want to play with their friends — in person, not remotely. Consoles will still sell, along with traditional controllers, TVs and monitors.

Even people playing on their own won’t necessarily want the intense immersion of VR all the time. Many gamers play to relax, more than anything — and being completely drawn into a firefight or virtual world would simply be too much. The simplicity of a couch and controller — or office chair and keyboard, will continue to have lasting appeal.

But underneath the raiding and shooting and exploring and crafting, games one day might be played for a bigger purpose. Already, researchers are finding ways to incorporate real-world problem solving into the gaming environment.

“Imagine a world where people play video games to solve hard societal problems — like curing disease,” Brubaker said. “That’s the world I want to live in.”

A dungeon might not just be a dungeon anymore: its layout might emulate pathways in the human brain — and the way people navigate the environment could give neuroscientists a clue as to the cause of a disease or suggest a way to perform a surgery.

Slaying goblins and slaying tumors might be more closely connected than ever.

Movie theaters won’t be going anywhere, either. Like video games, movies are an inherently social experience. Screens, sound systems and movie budgets will only get bigger and bigger.

Evan Daugherty ’00, a professional screenwriter who’s created films and shows for Disney and Netflix and HBO’s

IN CONTROL

Over the past 40 years, controllers have undergone changes in shape and function. Here’s a look at the highlights:



Atari Joystick, 1977



NES, 1985



SNES, 1991



Nintendo 64, 1996



XBOX 360, 2001



Nintendo Switch, 2017

independent studios, predicts people will continue to view movies in theaters because of the appeal of an occasion.

“It’s an event,” Daugherty said. “It’s a thing people will continue to do, particularly on dates. It’s a thing that teenagers will continue to do, frankly, and get away from their parents as they get out of the house.”

Not only will the features of a movie theater get bigger, but, unfortunately, so might ticket prices. The movie experience is trending toward one of luxury. Leather recliners replace hinged cloth-and-plastic seats. Beer and wine replace Coke, and popcorn is topped with somehow-gourmet butters and seasonings.

“It’s more of an expensive night out for families because if you’re a family of four or five, you get four tickets to the event, most people are buying popcorn and drinks and whatever,” Daugherty said. “That adds up to a pretty expensive night out. I think it’s probably going to be more and more like that.”

And just as the film experience might grow more exclusive for moviegoers, filmmakers will feel the pinch of that same exclusivity. The task of creating a totally new story — one not based on any existing intellectual property — and receiving big-studio backing continues to grow harder and harder.

Studios invest so much in making a movie, and they need to know the expenses will be more than recouped at the box office. Big names bring people to theaters: Marvel, DC, Disney and other recognizable brands will continue to dominate big cinema.

But smaller niche films will hardly disappear. If anything, their success will only grow. With streaming platforms like Netflix, Hulu and others continuing to garner widespread use, smaller studios and independent artists have a platform with which they can release their work with much greater ease.

“It will all be streamers, and most of the movies people watch will be on streamers directly into their home to their TVs because the TVs are getting bigger and the sound systems are getting bigger,” Daugherty said.

These creators will benefit from the ‘recommended feed’ just as much as consumers will. Horror geeks will have the latest boundary-pushing horror films and shorts offered directly to them in their feeds.

People seeking artistically risky content and avant-garde storytelling will be able to more easily discover directors they’ve never heard about.

“The creative people behind themselves, the writers, the directors, the producers, they’re trying to flip their creative muscles within the parameters that Hollywood is allowing them to do so,” Daugherty said. “I think there’s room for risk taking in the media landscape, but it’s really much more in the world of television.”

Television too will be completely changed by the streaming platform. Live TV — perhaps with the exclusion of sports events — will likely fall by the wayside. People won’t stay up or drop what they’re doing to watch episode premieres anymore. And why should they, when they can see it at their convenience when it comes out a day later on a streaming platform?

“You can watch a great thriller or a great TV series at home, and not spend any additional money other than what you’re paying for the subscription services like Netflix, Hulu or whatever,” Daugherty said.

Big networks will likely move away from their traditional broadcasts via cable and satellite. Instead, they’ll probably offer streaming services paid for by viewer subscriptions or a charge based on internet data usage. Independent companies and studios — like Netflix, HBO and Amazon — will continue to develop their own original series, encouraging viewers to use their particular service.

And these series will continue to grow in popularity, scale and cost. Easily consumable on phones and tablets, streamable shows can incorporate longer and more complex story arcs, both bingeable and consumable in quick bites.

As people’s preferences constantly change and companies stray away from the common methods of entertainment, the industry will continue to see more and more transformation.

►GRAPHIC Jamie Mahowald

RESEARCH:Rolling Stone, Medium, Google Think



▶ THE VIEW FROM THE TOP

For Headmaster David Dini, envisioning the path 10600 Preston Rd. will take is a vital part of his job description.

Alam Alidina: What opportunities to influence and educate other schools is St. Mark's going to take?

David Dini: An important part of what we strive to do is to provide some positive inspiration, content and experience that can be shared with other schools, educators, teachers and students. While many of the concepts we're developing aren't necessarily unique, the way that we've tried to grow them into a comprehensive, deliberate curriculum that scaffolds across grade levels in a very intentional, concrete way — we haven't really seen that done that way elsewhere.

AA: Is it fair to say that the standard the school is looking to set is similar to the standard Phillips Exeter Academy set with the Harkness method?

DD: That's a great analog. I don't know that we set out to emulate the Exeter model, but we've talked about the Harkness method as a sort of case study. Given that there's a greater appreciation for a focus on character as a central part of the educational experience, there's a real appetite for a comprehensive system to address those concepts.

AA: Next year, we'll see a major shift in the schedule for the first time in the past few decades. Do you see the curriculum as a whole undergoing a similar shift in the next 20 to 30 years?

DD: The foundation of our curriculum — the underpinnings of our core — won't undergo a massive shift, but we're constantly anticipating areas where we know we want the curriculum to shift and grow. For example, computer science and health and wellness education are two areas we're really focusing on that right now are very difficult to squeeze into the life of a middle or upper schooler. A lot of what we're trying to achieve involves greater flexibility to respond to those kinds of needs and to have the kind of hands-on learning experiences that is tangible and that puts you in direct contact with problem-solving.

AA: How do you see the physical plant of the campus changing? What facilities would you like to see?

DD: It's important that when we're talking about the needs and aspirations of the school, we have to be flexible and prepared for what might come in the future. Recognizing that we don't have premonition, we shouldn't lock ourselves into scenarios that are difficult to unwind. What I'd like to see most on campus is more open space. We've discussed creating a spine that goes east-west along the Davis Hall walkway from Hoffman all the way out to the Winn Science Center, and I think something like that would really add to campus.

AA: What's your dream for a Marksman in the Class of 2050?

DD: My hope is that we have an even clearer, even more closely defined focus on character development that is not only central to the experience, but also something that can be shared more widely. I get a strong sense that that's an important part of the experience today. In 30 years, I hope someone will say 'Oh, I know St. Mark's in Dallas. That's the place that has put character education at the forefront and where character really counts.' It's like that Terrill School piece of leather up [above my desk] that reads *literae et mores* — the intertwining of content and character.

▶ **STORY** Alam Alidina **ARTWORK** Thomas Zhang

No view of the year 2050 is complete without a glimpse into the future of 10600 Preston Rd. So we gathered a group of alumni, faculty, parents and students to see what that future looks like – and how it might affect us.

►STORY Alam Alidina, Cooper Ribman, Sai Thirunagari PHOTO Collin Katz

EDITOR’S NOTE: *Every one of the participants in our roundtable discussion came in with a unique outlook on how the school is going to change. Our goal was to hear them out and to explore their visions of how 10600 Preston Rd. will change for the Class of 2050, whether in the academic curriculum, the campus culture or the physical plant. Below you will find selected responses from our discussion, edited for brevity and clarity, with the broader topics we touched on in bold.*

Upcoming changes in the way students will learn.

Lower School Head Sherri Darver: In Goals IV, we’ve got the computer science, and that whole department is going to start big time, starting from first grade all the way through. That’s going to be huge.

Middle School Head, father of Sam Clayman ’17 and Ben Clayman ’18 Dean Clayman: We’re going to continue to be a place that puts a priority on both acquiring information and the application of that knowledge - how to use information in service of others. We can’t really predict what sort of technology the world is going to present to us, but we’re always going to need people who can make good decisions about how to serve and help each other.

Fellow Mason Smith ’15: Although the world’s changing technologically and people need skill sets, whether it be in computer sci-

ence or engineering, that doesn’t stop the need for teamwork, collaboration and communication skills. It actually makes it more important. St. Mark’s needs to be thinking about preparing students for the technical skills but also for those interpersonal skills and social-emotional skills, which are vital.

Chaplain Stephen Arbogast: The way we do teamwork is going to be quite different in Asia, India, Africa and the Americas. [We need to understand] not only how we are the same around the world, but how we perceive ourselves as being different and value the priorities in life differently.

Trends that might negatively affect campus life.

Physical and Experiential Education Director Mark Sullivan: We’ve seen a downturn in what it means to be, in some cases, other people, other cultures and other ideas besides what their own is. We’ve become much more self-centered as individuals within our own communities. St. Mark’s continuing to hold true to what it is to be a steward of our universe, so to speak, and a young man developing into a man of character — I think we need to hold true to those standards that we’ve set for ourselves.”

Senior Class President Colin Campbell: There’s a lot of emphasis, in some cases, to specialize and get really good at one thing. Something that I’ve really valued at St. Mark’s is the opportunity to try things and how that’s

been encouraged by teachers, people and coaches all the way through. If we can stick to that as well and encourage the whole boy with a bunch of different activities — athletics, community service, everything — I think that would be really valuable.

The need for a balance of technology and other teaching techniques in the classroom.

Makerspace Director Stewart Mayer: When I talk about technology in the classroom, I’m talking about actually designing, making, building and doing all that. I don’t think anybody should be replaced – you shouldn’t have an AI system becoming your teacher. The whole social aspect of being a student, and then being a leader and being a teacher. Just learning how to act in groups in those settings is so valuable. And so, you might be teaching something, but you might be teaching more than that, more than your actual subject pretty much all the time.

Board of Trustees Chairman, father of junior Knobel Hunt Clark Hunt ’83: I don’t think it’s an accident that in the “Students and Learning” section of Goals IV that there’s a heavy emphasis on technology, but there’s also a heavy emphasis on character and leadership. And they’re both extremely important. St. Mark’s has distinguished itself in both areas historically. But I think it’s important going forward that we continue to build leaders who understand what high character is whether that’s in a technology environment or elsewhere.

History instructor Andrea Hamilton: I think that in classrooms you’re starting to see universities saying that you need to be sophisticated with your technology, but you need to preserve places for face-to-face interaction in

Andrea Hamilton, left, gives perspective on how single-sex schools have historically adapted to changing times while Stewart Mayer listens.



► DREAMS FOR THE FUTURE

We asked the participants to tell us the ideal experience they wanted the Class of 2050 to have at 10600 Preston Rd.

I would hope that in 2050 students still have an opportunity to be in a safe environment. I don’t necessarily mean just physically safe – I mean a physically, emotionally, spiritually, academically safe environment where they can continue to be challenged and they can continue to be pushed in ways that allow them to grow to their fullest and broadest potentials.

MARK SULLIVAN

Just like in the Class of 2020, I would hope that every boy in the Class of 2050 feels he is known, he is loved, and that we’re expecting his success. And not that we’re just committed to his success, but that – and I think to some degree this is a special sauce here – we’re expecting his success. And I think that goes a long way because that shows that we’re invested in his success.

CHRIS DISIMILE

We have to teach these boys that it’s okay to fail. And we’re not encouraging you to fail, but we want you to learn to deal with failing that test. Especially with little guys – how do you learn to move forward and take risks and have that growth mindset all the time?

SHERRI DARVER

My dream for a future St. Mark’s student is to not only make a meaningful narrative of their time at St. Mark’s, and have that skill set to then carry that out for the rest of their life. I want them to be a person that constantly brings everyone with him in the meaning that they make and in the stories that they create.

MASON SMITH

Something I love about this place is the brotherhood and that sense of it truly being for others and serving not because it’s a selfish endeavor, but because it’s a selfless endeavor. I think we do a really nice job of creating an environment that celebrates others because it’s a good human quality and I hope and think and expect that we will continue to do so.

Upper School Head
COLIN IGOE



your classrooms because students are savvy and you want them to know about technology, but you want them to be able to talk to one another and have that personal interaction. So I think it has to be a balance and that schools need to really keep that focus on writing with a pen or a pencil and having conversations in class time.

Change in the pace and direction of cultural change on campus.

Clark Hunt: I can definitely sense a difference in the culture. And the culture is much better today than it was 35 years ago in that I think the students really support each other. Nobody’s an outcast and there seems to be a lot of camaraderie. People’s differences are respected, I think much more than they were 45 years ago.

Mason Smith: I really don’t see leaps and bounds in the culture of St. Mark’s 50 years from now. I think the culture of St. Mark’s is pretty

amazing. I think it’s just as time progresses, as technology changes, as society changes, just making those fine tunes to adjust the culture to make sure that we are maintaining camaraderie between students and honoring the tradition that St. Mark’s has but also constantly thinking, ‘How do we continue to adjust to this changing world and maintain that Marksman identity?’”

Sherri Darver: During the work on Goals IV, the mission statement was ripped apart bit by bit and examined for terminology, and ultimately, nobody wanted to change it. After hours and hours and hours of discussion, they liked the mission statement just the way it is because it illustrates exactly the kind of young man we are trying to raise. That was a pretty powerful moment.

A new generation of facilities to reflect an evolving environment and a desire for greater continuity.

There’s an increasing focus on specialization, and it’s really easy for Marksmen to get more focused on pursuit in the classroom, at the risk of growing emotionally, socially, artistically or athletically. My hope for the Class of 2050 is the same as for the Class of 2020. It’s the hope that all Marksmen are well-rounded. Marksmen speak of the whole boy. I hope that principle is still around in 30 years and is something the administration and staff speak about.

CLARK HUNT

I hope St. Marks is a place where we are comfortable being vulnerable. And what I mean by that is venturing into a space which is unknown, in doing things that we are not good at, wanting to be better and wanting to take risks. I think we need to constantly resist the temptation to remain in what is comfortable and what we are good at. Hopefully, we will always be a place that honors, respects, and encourages vulnerability.

DEAN CLAYMAN

Left: Mark Sullivan, far left, discusses how the school will more broadly participate in the wider Dallas community. Listening are, from left, Dean Clayman, Sherri Darver and Rev. Stephen Arbogast.

Bottom left: Clockwise from top left, Clark Hunt, Mason Smith, Colin Campbell and Andrea Hamilton listen to ideas of how the campus’s physical plant will accommodate future changes.

DIVERSE VIEWS OF WHERE WE’RE GOING

Mark Sullivan: I’d like to see us, in our 37 acres of campus, develop a broader area of where we can make use of some of the green spaces on campus. In the area where our batting cages are, I’d like to see some sort of Lower School activity or practice space that is of the same caliber that our older kids practice and play on. Right now, we’re kind of putting them in little corners. I’d like to see us have a more thoughtful approach to how those younger teams and those younger students can be a part of the same caliber of facility that we have elsewhere across the campus.

Assistant Upper School Head Chris Disimile: I would add the library to that conversation as well. The library isn’t a place where you go just to check out books anymore. The library should be a place where students go to gather, to collaborate. There’s also no real student center or learning center on campus, and I could see that being a potential area of need.

In my time here, I really have appreciated that there’s still some activities that probably would be seen to distract from our academic studies or the technical aspects of the school. In 2050, I hope we don’t get overly caught up in that mission to be technical or purely academic and that students still have a lot of fun coming here. And that St. Mark’s remains a fun place to be.

COLIN CAMPBELL

SHOPPING

As retail evolves, the way we shop, the way we market and the way we define a mall will change. From online retail to lifestyle centers, a revolution is well on its way.

► **STORY** Siddhartha Sinha, Paul Sullivan, Toby Barrett **PHOTO ILLUSTRATION** Jerry Zhao, Tyler Nussbaumer

EDITOR’S NOTE: *As malls have declined recently because of online shopping, a Marksman’s trip to NorthPark may look completely different in 30 years. The following story is a speculative alternative copy that extrapolates the future based on expert opinion.*

Shopping’s not the first thing on sophomore Elijah Baker’s mind when he steps through the Macy’s entrance of NorthPark Mall. Realistically, it’s not even the second, third or even fourth.

Between his group of four to five close friends, whatever new blockbuster is on at the AMC across the food court and the La Duni next to the center garden, Elijah has everything he needs to have fun at the mall.

But with the imminent demise of what we know today as a shopping mall, how will Elijah’s Friday night change? How will the world’s Friday night change? What’s up next to replace the modern shopping mall?

November 4, 2050, 6 p.m.

It’s a Friday night, and 45-year-old Elijah is walking through the same double doors with the same sign reading “NorthPark Mall.”

It’s the only mall left in the Dallas-Fort Worth area. There was only room for one.

Stonebriar and Valley View closed down so long ago that when you ask a kid in 2050 if they went to Stonebriar, he just looks at you like you’ve gone crazy, laughs with his friends and goes on with his day.

But the NorthPark Elijah walks through tonight is nothing like the one he walked through three decades ago.

The stores he walks past are spectacles. Presentations, showrooms for people to glance at as they walk around aimlessly.

All AMC movie ticket sales have also moved online. He scans his electronic ticket on a machine and watches his movie.

The La Duni he used to swing by moved out a few years ago. NorthPark just didn’t have any more space for it.

The mall has transformed.

And what Elijah can do at the mall has transformed, too.

It’s now a supplement to the lives of its consumers, acting as a hive for social activity.

Stores still exist at the mall, but there’s a catch.

They have no inventory other than display. When Elijah’s looking for a new navy blue suit with a subtle checkered pattern, all he has to do is stand in front of a scanner, and a few seconds later, all the dimensions Elijah needs to place his order are staring him in the face. All he has to do is hit the “confirm” button, and within a week, his custom-fitted new suit will be at his door.

Everything’s digital. The options to choose from are unlimited. He doesn’t need to try on anything. It’s all just a scan, an optional holographic projection onto his body and a “confirm” button away from home delivery. Why try on anything if everything is custom made for him?

November 4, 2050, 9 p.m.

Elijah’s stomach is rumbling. He lost track of time hours ago. The last time he checked his watch was right before he confirmed the shipment of his suit.

Thirty years ago, he would have just boarded an escalator and headed over to the restaurant corner of NorthPark. But those restaurants are all gone. The identity of the early 21st-century mall itself is gone. Because the purpose of the mall when it comes to food is gone.

Where do I want to eat tonight? What are my options?

By no means is Elijah restricted in his choices.

He could head home. The groceries got resupplied a few hours ago. It’s one of Elijah’s favorite parts about his fridge. It keeps inventory of what’s left in his fridge, and when something’s running low, it’ll remind Elijah with a message on the touchscreen on the door.

Today the message read, “Orange juice, chicken wings, carrots, milk running low. Would you like to reorder?” in the morning after breakfast. Ordinarily, he would have forgotten to swing by the grocery store on his way home from work, but now, all he has to do is hit “yes” and the food will be waiting at his door when he comes back home.

It’s a solid option, but Elijah has other ideas. Instead, he heads five minutes north on Central Expressway to Preston Hollow Village.

It’s been there for a while, but that corner of 75 and Walnut Hill has transformed into a “lifestyle center” where people can walk out of their condos — one of which Elijah happens to own — into a lively atmosphere of restaurants, grocery stores, gyms and everything needed for immediate gratification.

It’s a hub of activity. In many ways, it’s the new, open-air version of what Elijah used to walk through in 2019.

“

Retail is going to be increasingly personalized and customized. What we want and what we’re going to get is going to be unique to us. It’s going to be built to order. And when it comes to online shopping. Privacy issues aren’t going to go away. They aren’t in the rearview mirror.

EDWARD J. FOX
Corrigan Research Professor of Marketing at Southern Methodist University’s Cox School of Business

He doesn’t have to walk through the Macy’s he had to at NorthPark. He doesn’t have to hike across the mall. He doesn’t have to wait too long. Because this new lifestyle center is just more convenient.

November 5, 2050, 5 p.m.

Red or yellow? Solid or checked? Pocket square or not?

Elijah’s getting ready for a company ban-



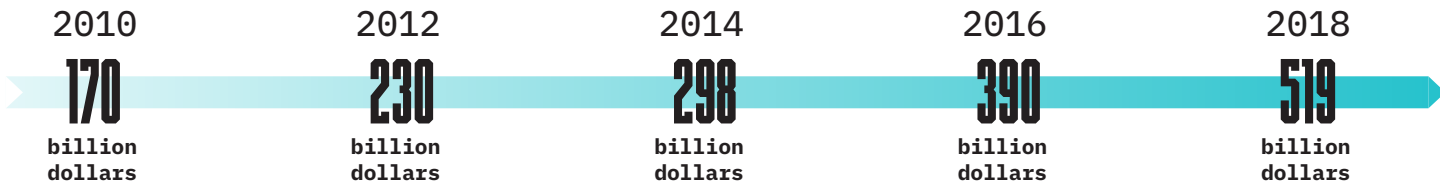
THE FUTURE OF THE LIFESTYLE MALL

“Malls are closing and the replacement concept is what’s known as a lifestyle center. You have a variety of retail, not large mall-type retail. A lot of restaurants. A lot of entertainment. And you have residential living like condos. People live there, and they have places to go, to eat, to have fun. Rather than have centers like NorthPark where people travel from 30 or 40 miles away, you have everything around you to meet your needs.”

EDWARD J. FOX

► BY THE NUMBERS

Over the past eight years, companies such as Amazon and E-bay have more than tripled U.S. e-commerce sales, eating into traditional retail and forcing malls to find new ways of attracting customers.



SOURCE: statista.com

quet tonight. The only question left for him is which tie to wear. Among the four ties sitting on his bed, all of them are decent options, so he just closes his eyes and grabs whichever one he feels first.

Red tie. Solid. Paired with a pocket square. *Nice. It’ll look good.*

All he has to wait for now is the suit he ordered less than 24 hours ago. He sneaks a glance out the window of his third-floor condo in the heart of Preston Hollow Village and

sees something flying towards him.

Great! Right on time!
It’s only 30 seconds later that a drone lands on Elijah’s balcony, drops off a package and flies back toward its headquarters, ready to grab another package and fly on its way.

And it’s only a minute later that Elijah is unboxing the navy blue suit he saw on a holographic scan yesterday at NorthPark.

Buttoning the top button of his jacket in front of his mirror, Elijah takes a look at

himself, runs his hand through his hair and straightens out his tie.

He extends his arm and takes a look at his wrists. Shirt sleeve just showing under the jacket.

Perfect fit.
He expected that. He doesn’t have to worry about the fit at all.

Because he’s already tried it on. Because it’s already been fitted. Because everything is more customized now.

SOURCE: Edward J. Fox, sophomore Elijah Baker RESEARCH: CNN Money, statista.com



In 2050, the climate may determine everything about the way we work and play. For a Middle School football player, will life ever be the same?

Within the next 30 years, global temperatures are expected to raise by 1.5° Celsius. For evening football practices, this increase means more than a degree and a half more to sweat through: it means a complete revolution of the way we live and use our resources.

“Environmental issues are becoming a tension felt on both sides of the political aisle, and the work environmentalists conduct is not in partnership with the federal and state government but in spite of it.

DAVID GIMNICH
Environmental Program Coordinator, Geospatial Information Scientist

Eighth grader Jimmy Francis feels drops of sweat trail down his back after taking his first steps onto the field.

At home, he’s shielded from the sun. The air conditioning in his house stays on full blast, expending energy through day and night. As he exits the house and walks into his garage, the sweltering heat hits him like a flood.

The metal handle on the door of his mom’s bright blue Lexus burns his hand, and the seat feels like the top of a stove. During his ride to practice, he can barely focus on what his mom is saying because the sun’s blinding rays pull his focus to an oncoming headache.

It’s a Monday afternoon, so the team is working defense, but Francis is tired. As he begins to stretch and warm up, one of his friends walks up and pulls his helmet off — clearly he got there early, his hair slicked back with sweat.

Position drills sap their energy with tiring

blocking, sprints and hundreds of routes to run, so the team use frequent water breaks.

For growing teenage boys like eighth-grade football players, hydration is nothing to take lightly.

Francis scrambles into position as the second half of practice turns into a scrimmage, and he begins to feel light-headed. Feigning strength, he keeps playing and playing, but he knows vaguely his health is at risk.

Heat injuries, swelling of the brain and low-volume blood shock are all risks of dehydration, but many others plague outdoor athletes. And as temperatures rise around the globe, populations worldwide will have to face these risks with increasing mindfulness and take further steps to keep people safe.

Now it’s 2050, and Francis is 44.

According to David Gimnich ’04, environmental program coordinator of the wildland conservation division of Austin Water, by 2040, we can estimate with worryingly strong confidence a global temperature increase of 1.5 degrees Celsius.

Gimnich began his contribution to environmental administration first in law before moving toward more hands-on practices, including digital cartography, fuels management, wildfires and wild land vegetation in the Austin Fire Department.

From there, he launched into his endeavors at Austin Water, where he and a team of less than 30 people manage 10,000 acres of land and water in the Austin area.

A degree and a half brings more than another bead of sweat for Francis to fan off in a summer football practice.

It means complete death of all coral reefs, shortage in ocean life diversity and a massive loss in world biodiversity, from amphibians, to plant life, to ocean life, to marine life — means of survival for citizens around the world.

And that cascading effect creates a global food crisis for humans at the top of the food chain.

A key element missed in every nihilistic discussion on climatic futurism is human ingenuity. According to researchers, we will reach a point where we run out of oil, or where we start to draw near to a national or global food crisis.

These events have capsized certain societies in the past, yet human ingenuity has, in those tight moments, imagined a solution.

“It is important to say as a nation, ‘Hey, maybe we can do a better job of identifying and solving problems earlier and working toward those solutions even though they’re

not affecting us now,’” Gimnich said. “And part of that division is that more than likely, it is not going to get to a point where millions or billions of people start dying off in droves because of some global food crisis.”

A key word in environmental science is anthropocene: a defined geologic period where human activity dominates the climate and environment.

And when humans’ effects affect humans, Gimnich has no doubt human entrepreneurship will resolve the issue — once enough people are affected.

But to Gimnich, this dogma needs to change: recognizing these issues before they affect society’s bottom 20 percent rather than solving them once and only once they affect the top 20 percent.

“A trend that worries me is the dismantling and disbelief of subject-matter experts and defined science relating to any specific area,” Gimnich said. “In hard science and environmental management, you see a lot of belief, whether it’s relating to global climate change or vaccines, that the subject-matter experts are in the pocket of someone else, that they’re trying to trick the system rather than simply representing the fact of the matter of using methods to try to prove certain facts or theories.”

...

Research professor Troy Stuckey found his start in environmental policy after taking one class during his undergraduate career, and then from there, his concentration on science specifically with policy continued through his doctorate.

During his pursuit, Stuckey found himself taking over the environmental policy class he attended after his professor said he was going to retire.

Since then, Stuckey has been teaching environmental policy at Southern Methodist University (SMU) for around 18 years.

“I focus on our real issues that affect Americans, and we focus on issues in Dallas and in other places,”

Stuckey said. “Two main points that I teach come from air quality and waste, but I also go in depth with topics from global warming, to water, to hazardous waste.”

While teaching the class, Stuckey has found meaning beyond instructing the new generations about his own passion.

Through his work, Stuckey has had a direct impact on the health of his fellow human beings.

“The environmental laws of the United States are passed, for one reason: protection of human health,” Stuckey said.

“They’re designed to save human beings through the environment, and if we keep a clean environment, then we keep a healthy population. My work helps to raise awareness and to promote better science for protecting

human beings and American citizens specifically. What I do has a direct impact on the health of my fellow human beings.”

The United States is able to offset that pollution with our existing infrastructure, Stuckey believes.

As cities grow and our population rises, the country must be vigilant about the specific processes contaminating the atmosphere.

“If people remain focused and set their goals on creating solutions, I think that as a society we will stay on top of it, and we’ll have a future that’s even better than today,” Stuckey said.

Stuckey also foresees an evolution of the policy and laws in the next decades, predicting that we will see statutes more protective of environmental management in the United States.

“Where I see that going, perhaps, is a continuation of the things that we currently have in place and then an expansion into climate science,” Stuckey said. “As a country, we’re not there yet, but I think that we’re heading in that direction. Eventually, we will see laws in the United States that are more protective of climate science and how that affects global warming. It’s going to eventually happen down the road.”

In addition to giving his students the necessary tools to use outside of college, Stuckey urges his students to do something with their degrees and make something happen, whether in environmental policy or not.

“You need to make the most of your college degree because society is depending on you,” Stuckey said. “I tell my students that they should work hard to actually make change and carry forward these ideas that can help us build an infrastructure that would allow our country to feel more comfortable signing onto these global treaties and other things that might help to solve world problems while maintaining our strong economy and way of life.”

While the state of the climate is a pressing matter in the world today, Stuckey has faith that there will be a solution from society with whatever problem will arise.

He is confident that the future will even itself out in time.

“When I was young, the future scared me, but now that I’m not young, it does not scare me at all,” Stuckey said. “The reason for that is human ingenuity. I have great faith in what we can do as a society and what we can do as individual people. When we put our minds together, we can achieve a lot of great things. For that reason, I’m not too scared when it comes to maintaining our civilization.”

“

The air quality that we have in 2019 is some of the best air we’ve had in more than a century, and we have that because of regulations. It’s not going to get better on its own. We have an huge population of people who are living a lifestyle that produces an enormous amount of pollution.

TROY STUCKEY

Research Professor of Environmental Policy at Southern Methodist University

A 1.5°C GLOBAL TEMPERATURE RISE WILL RESULT IN:

70-90% decline in coral reefs

14% of the world population exposed to severe heat

8% of plants to lose at least half their range

0.20 meters in sea rise

31-69 million people who will experience flooding

350 million people exposed to severe drought

SOURCE: Intergovernmental Panel on Climate Change

RETIREMENT

A Marksman retiring in 2050 may live a completely different life than one retiring tomorrow.

EDITOR'S NOTE: With people living longer and therefore having lengthier retirements, the lifestyle a Marksman leads after retiring may look different from today's retired living trends. The following story is speculative alternative copy that extrapolates the retired life of a fictional Marksman based on expert opinion.

HIGH SCHOOL:
ST. MARK'S



2019

Retirement is currently at a tipping point. With the average age of retirement in America sitting at 65 years and the average life span at 78, these precious 10 to 15 years come with the burden of finding ways to occupy the extra free time.

After pocketing away around 15 percent of their paycheck, many Americans kick off their retirement by enjoying the vacations they never had the chance to take or spending time with the grandchildren that lived too far away for them to see. Many others continue their professional lives — but with greatly reduced hours, sometimes just two or three hours a day, four days out of the week.

Those who live into their 80s start to consider moving into a retirement community with other people their age — others start their retired years in communities and spend their golden years there.

However, as increasing life spans slowly pull ahead of retirement age, so does the amount of downtime people have after retiring.



UNDERGRAD:
UPENN

2050

With the last slices of his farewell cake in one hand and the family photos he once kept on his desk in his briefcase, Chief Executive Officer of GW Welton's Asset & Wealth Management Division Anthony Jameson '98 pushes open the door and officially finishes his last day at 483 8th Avenue in New York City.

His four-year-old Tesla K quietly pulls up right on schedule, and he gently places 34 years of precious memories onto the passenger's seat as the car smoothly pulls into traffic.

We'll spend two weeks in Paris since Sarah always wanted to see the Louvre, then head north to see the beaches of Normandy, stay a week in England, then drop down into Italy to enjoy the fresh breeze. I heard Emma was doing her year abroad in Germany, so maybe we can surprise her and say hi!

Eagerly anticipating their 40th anniversary trip, Anthony slips off his tie and slides onto his leather sofa just like any other day. Pulling the photos of his children, Natalie and Charlie, and their grandchildren out of his bag, he wonders at how much they've grown over the years.

I should stop by some time.

GRAD SCHOOL:
UCHICAGO



2060

Could you get that?

Hearing his mother Natalie Jameson's request, Anthony's grandson Oliver quickly leaps up from the table and sprints to the door, eager to get away from the tedious math problems that Anthony was struggling to explain to him.

Anthony glances past the kitchen table, stopping on the photos neatly framed just to the right of the fireplace. A graceful gazelle leaping through the plains. Two fierce wildebeest furiously charging at one another. Zebra grazing in the fields.

Brings back memories...

While Sarah Jameson was satisfied with their anniversary, the trip sparked something in Anthony. Soon after their return, he rummaged through his closet and pulled out his camera. He'd never thought too much about his love for photography, but with no job holding him back, he went ahead and booked himself a trip to Africa to see the annual wildebeest migration from Tanzania to the Maasai Mara National Reserve in Kenya.

I always wished I did more photography in high school and college. I should take Oliver with me next time if Natalie will let me.

Natalie appears, prodding Oliver back to the table, demanding that he finish his math homework so his grandfather can go rest. Anthony laughs. After all, he moved closer to Natalie to help take care of Oliver while she was busy at work; he signed up for this and was heartily enjoying it.

WORLD TRAVELS:
EUROPE



2070

Fore!

Yeah, great shot Tony! Real nice! It's sitting nice and pretty on the fairway... of the other hole!

It wasn't the greatest day for Anthony's golf game, but it was good to keep in touch with his colleagues, not only to stay sharp about the business world but also for a good bit of fun every Saturday at 9 a.m.

Reggie Wilkins, Anthony's old friend and current CEO of GW Welton Investment, had always kept in touch, but after Anthony settled down, Wilkins invited him out to their weekly matches at the recently built Silver Oaks Country Club.

Listen, I know you're enjoying retirement, but we'd really love to have you back at the company. You don't need to come back full time, just as an advisor to help us out with some tough decisions. Are you in?

Anthony tosses his driver back into his bag. Sighing, he knows he ought to; after all, now that his grandchildren are off to college he has more time than he knows what to do with.

If your financial decisions are as poor as your swing, then I guess I'll have to so you don't drive the company under.

...

A 90-year-old Anthony slides new photos of his grandchildren, now all soon off to college or already there, back into the same worn leather briefcase he walked out with 15 years ago. He kisses his wife goodbye, and takes an Uber to work just like his first day on the job; his vision wasn't good enough for him to drive anymore. A renovated building awaits him, with new faces sitting in new chairs surrounded by walls painted a fresh coat deep blue paint. He climbs the steps up to the door with a slight hobble.

I'm getting too old for this.

But it was good for his health to stay active both in mind and body. Still, thoughts drifted through his head of that new retirement facility that was being built nearby. It offered everywhere from communal living to hospice care. These thoughts worried him.

Well, maybe not that old.

WORLD TRAVELS:
AFRICA



LONG-TERM EMPLOYMENT:
GW WELTON INVESTMENTS

SOURCES: J.C. Snead '68, Mark Zilbermann '70, Ventana Director of Lifestyle Services Lauren Saloom, RBC Wealth Management Consultant Robert Stern



HOME OWNERSHIP:
SCARSDALE, NY

2075

It's 8:30 a.m., and Anthony's computerized alarm system opens up his blinds.

The bright light of the morning sun awakens Anthony from his slumber.

After brushing his teeth and getting dressed, Anthony goes downstairs to eat breakfast. On the way, he greets Ben and Emily, friends he's made in his time at Great Oak, a recently built retirement community.

When he arrives for breakfast, he chooses his balanced meal from the options on his personalized menu. His breakfast serves as part of the health regimen Anthony adopted when he first came to the community. Now his food serves his health as well as his stomach. He gulfs down his plate of Eggs Benedict, slurps up a glass of orange juice, then heads back upstairs.

Once he's in his apartment, Anthony prepares his canvas and brushes and paint for his online art class. Anthony discovered a new passion for painting through his time at Great Oaks, and he now takes a daily art class entirely over the internet. He just follows along with what the program tell him to do and uses the advanced AI of the program to ask more about parts of the lesson he's confused about.

After completing another trademark Jameson masterpiece during his art class, Anthony heads back downstairs to get a quick workout in. He inputs his personal information into the Spartan 7000 weight machine, and it spits out all the information Anthony needs for this machine.

An LED screen instructs him how to do his arm and shoulder exercises, how much weight to use, and how many reps to perform of each. His entire workout has been personalized to meet his specific personal health needs.

After his workout, Anthony heads back up to his apartment, takes a quick shower, then orders a self-driving Uber on his iPhone to take him to the golf course. After a smooth car ride in a sleek red Volkswagen Passat, he plays a relaxing four hours of golf with his old pals from GW Welton.

Arriving back at his apartment in another self-driving Uber — this time a cool blue Toyota Camry — Anthony prepares for dinner. This particular meal will be a very special one. His son Charlie and Charlie's wife, Claire, will dine with him and their two children, William and Mia.

Charlie and Claire recently moved to New York to spend more time with Charlie's father. William studies law at NYU, while Mia just graduated high school and plans to go to Columbia.

At dinner, Charlie tells his father how he started a new business here in New York, and Claire retells the hilariously awkward videoconference she had two days ago. William tells story after story about his summer internship at Wachtell, one of the most prestigious law firms in New York City. He can't seem to stop talking about it.

Mia talks about how excited she is to go to Columbia in the spring, but she's still undecided about her major. She's switching back and forth between nanotechnology and biology. Her wise grandfather suggested a career in finance.

After his enjoyable and delicious dinner, Anthony walks back up to his apartment, undresses and puts on his pajamas, then soundly falls asleep into tomorrow.

► **STORY** Luke Piazza, Axel Icazbalceta, Ishan Gupta **ARTWORK** Jamie Mahowald, Luke Piazza

LONGEVITY & HEALTH

With many hurdles already overcome in the advancement of medicine, the medical research community faces challenges ahead as it takes the leap into the future.

Fourth-grader William Braskamp wakes up on Nov. 16, 2018. It's Grandparents' Day, according to the calendar.

The Friday before Thanksgiving break starts — the day he gets to show his grandpa, "Papa," around his school and what it's like to be a third-grade Marksman.

They hop into an Uber — Papa can drive, but it's probably safer if he doesn't. Parking is always a hassle on Grandparents' Day, and no man in his early seventies should be asked to maneuver through chaos like that.

Braskamp's Grandparents' Day is not much to talk about.

He takes Papa to his classes, they do a fun activity and he shows him around campus.

But by the time Braskamp gets to be a high schooler, many of his classmates — maybe even Braskamp himself — may not have a grandparent to take at all.

Braskamp shows Papa the Lower School, adorned with art projects and school mantras.

He takes him to homeroom — other students are waiting with their grandparents. The room is set up with chairs for older folks, and after Papa sits down, the day begins.

In math class, they learn about Napier's bones. Each popsicle stick represents a bone, and they use these bones to solve a plethora of problems. By midday, most grandparents have left. Being at school for the first time in 50 years is a bit fatiguing.

But with new emerging technologies and better research into diseases that cause frailty in elderly citizens, it's entirely possible that all Marksmen's grandparents will have no problem staying with their grandchildren all day.

According to Chief of Geriatric Research at UT Southwestern Craig Rubin, research into various debilitating illnesses can vary from excellent progress to complete standstill.

"We don't have all the answers for really common problems like degenerative joint disease, arthritis and osteoarthritis," Rubin said. "There's not a very effective therapy that would have a dramatic impact in terms of quality of life; hopefully in the coming decades, but we're not there yet."

The major hurdles researchers have found

most difficult to overcome have been dementia and Alzheimer's disease.

Notably, while most illnesses that affect seniors have decreased in number of cases, Alzheimer's has increased. Rubin says that this can be attributed to more people reaching that older stage in their lives to start developing the disease.

"Their mortality rates continue to increase because of dementia and Alzheimer's disease," Rubin said. "Part of that is because people are living longer than they used to on average."

Alzheimer's research has garnered increased attention recently owing to the increased number of cases.

Recently certain genes have been identified that can cause Alzheimer's.

The identification and early planning for the disease is the most that can be done until more research is done.

"The older you get, the higher the independent risk becomes for developing cognitive impairment," Rubin said. "We don't have an answer to [Alzheimer's] now, but hopefully in the coming decades we will. There's obviously a lot of fascination in those areas."

The future looks bright for research into the issue, with research groups getting more attention and funding by the day.

"In 1969 we had no microbiology or understanding of cells," Rubin said. "Fifty years is a long time, so there's probably many things that we don't know yet."

Also, Rubin says that while research and development can certainly help increase human longevity, the burden to live healthily lies on younger generations, staying active like Braskamp's grandfather, who plays tennis daily.

"There are things that you have control over now that will have an impact later on," Rubin

said. "The people that are developing habits of good health like exercising and not smoking that will probably have a long positive impact on their overall health decades down the line."

According to the CDC, the leading cause of death of individuals over the age of 65 is heart disease, followed by cancer and respiratory disease. These are trending downward with time owing to better health practices from now-elderly citizens.

He says that it is exceptionally difficult for the elderly to get the care they need, especially when a large portion of them have multiple illnesses that need attention.

Geriatric care in particular is very expensive, and most people cannot afford that expenditure. In addition, many assisted living centers do not attract enough employees. This leaves some senior citizens with a less-than-ideal quality of life. People who require assistance to function don't get the care they need.

However, Rubin says a conversation about what we need to do about lacking senior care is crucial, and we have been making steps in the right direction on the whole albeit, with some recent missteps.

"My doctor only spends two minutes with me," Rubin said. "If you're older and you have multiple problems, it's more likely to have an impact."

Advancement in cancer treatment is essential to increasing longevity. The most common cancer among elderly is pancreatic cancer. New drug combinations have seen great results in the treatment of pancreatic cancer, and just recently, scientists have discovered a major breakthrough in cervical cancer utilizing gene-editing technology.

It's often said that the first man to live to 150 has already been born, but in reality, the topic of longevity in the future is more complicated.

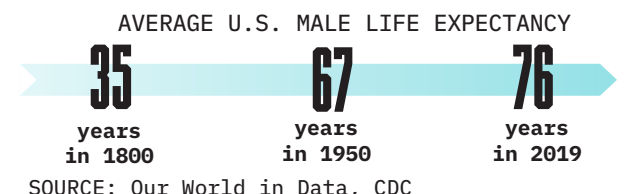
Medical advances are well on their way, but progress is constantly fluctuating. A great day for cancer research may be a slow one for Alzheimer's. But eventually, there will inevitably be triumphs.

When Braskamp visits his future grandson's school, he may not have to worry about any of the problems people Papa's age have to deal with. Only time will tell.



ANOTHER BIRTHDAY

It has long been an achievement among humanity to live a long and healthy life. In the many fields of medicine that make lives longer, advancements have been slow and steady. The science to extend the human life span draws upon many different factors and sciences.



MAN AND MACHINE

When most people hear the word "prosthetics," they turn to a certain image in their head.

Maybe it's from *Million Dollar Man* and how prosthetics grant him superhuman smarts and physical prowess.

Or maybe it's a grizzled veteran learning to walk again after losing a leg in war.

But by the year 2050, we might have a whole new idea of what this emerging technology will look like. Prosthetics have been around for hundreds of years, going all the way back to the crude peg legs and hook arms of a time long past. The principles that those early inventions established have been improved upon with modern materials and technologies.

Doug Sammer, hand and forearm surgeon at UT Southwestern, has lots of experience with prosthetics and their effectiveness. He says that functional prosthetics, mostly to replace limbs, can be divided into two categories: body-powered prosthesis and myoelectric prosthesis. The former is controlled by other muscles in the body that the wearer already has.

"They have a system of pulleys and bands that convert elbow movement or shoulder

movement to opening and closing their hook on the end, for example," Sammer said. "It sounds old-fashioned and unsophisticated, and it is, but there's still a big role for those."

Myoelectric prosthesis utilizes the body's nervous system to detect when the body is trying to move a muscle and, in turn, will move a prosthetic limb. Sammer says while these are more lightweight and contain digits instead of a hook, for example, they lack in dexterity and require lots of learning from their wielder.

"The downside of them is that they're not sturdy, they'll break down every few years and they have to be rebuilt," Sammer said. "Some of the major issues with prostheses, probably the number one biggest problem, especially with myoelectric prostheses, is a lack of sensory feedback."

Sensory feedback is one of the main focuses for research in the field, and the interface between the prosthesis and the nerves is also a priority. The cutting edge of tech is certainly not to *Million Dollar Man* levels yet, but progress has been slow and steady.

Regenerative Peripheral Nerve Interface is a relatively new technology in the field, which

utilizes a piece of muscle from somewhere else in the body, wrapping it around a nerve ending, and letting the nerve grow into it to amplify the nerve signal, making it easier for the prosthesis to detect the nerve firing.

A conversation among the medical community involves choice between the transplantation of limbs and prosthesis. Sammer thinks both address the same issue in different ways, and each has their benefits.

"One of the big advantages [to transplantation] is they get that sensory feedback," Sammer said. "One of the big downsides is the immunosuppressive regimens are pretty harsh. These people can have potential organ failure from the medication."

Although the technology won't be near what modern science fiction might tell us in 2050, Sammer is optimistic about the future of the field and what that can do to help people get some of their life back.

"Everything about cell phones over the last 30 years went from a rotary phone to wireless phone," Sammer said, "so you can expect the same kind of advancement in prosthetic technology."

TRANSPORTATION

Although services like Uber and Lyft are popular, millions of people still drive their own cars. Where are cars headed in the future?



THE NEXT GENERATION

Sewell Automotive Companies plans to complete the construction of this new Lexus dealership by the end of 2020. “[This building is] modern and meant to serve the customer of today and tomorrow,” Carl Sewell III ’02 wrote in an email. “Whatever technological changes come to pass, it is our sincere belief that companies who focus on designing their product and experience to serve the customer will succeed far into the future. This has been our family goal since we sold our first car in 1911.”

In 1911, Sewell was born. A general store, movie theater and livery stable, the company began selling the Model T as the era of the car took off.

By 1989, 78 years later, Sewell had solidified itself as a major car distributor in north Texas as Dallas’s first Lexus dealership opened on Lemmon Ave.

Today, Sewell Automotive Companies operates 16 dealerships all around Texas. And just like everyone else, they are prepared for what the future has in store for their industry.

...

Carl Sewell III ’02, the grandson of Sewell’s founder, is the current president of operations for the century-old company.

In his mind, the development of the automotive industry can be broken into four categories: interconnectedness, autonomous cars, ride-sharing and electric cars.

According to him, the increasing technology within cars will be notable in the future.

“There’s the whole concept of connected-car technology and what that means,” Sewell said. “That’s everything from Apple CarPlay being in your vehicle to Wi-Fi. All of that stuff is very basic things that we’re getting more and more accustomed to, whether it be cars talking to one another, enhanced AV systems or cars talking to the roads. That’s all related to the network, 5G and the future.”

In addition to the changing landscape of technology inside of cars, the manner in which cars operate as a whole is evolving. According

to a survey done by Renault-Nissan-Mitsubishi, 55 percent of small businesses believe their fleets will be fully autonomous within 20 years. According to Sewell, companies like Tesla and Google are leading America’s development in these areas.

The electric car trend, also led by Tesla, has had less success in the United States, according to Sewell. That said, China and Germany have had better success in meeting the increasing demand for electric cars.

“In the United States, other than Tesla, really no one has been successful at selling these vehicles,” Sewell said. “Also, no one’s ever really made a dollar selling electric vehicles. So it’s a really interesting thing where you have three different parts of the world with the three biggest auto markets — China, the US and Europe — with some different strategies going on, all around the future of power train.”

To Sewell, the trend of ridesharing will not pose a threat to the way cars are traditionally bought and sold.

“We do not feel that rideshare will have meaningful impact on retail sales, at least in the markets that we represent anytime in the near future,” Sewell said. “We view personal car ownership or leasing as really meaningful aspects of the market for many years to come. While some of those things kind of sound cool and make headlines, the actual economics of them are really challenging.”

Beyond these four main categories, Sewell

sees other trends in the automotive industry. Mainly, the demand for SUVs is rapidly increasing. Sewell attributes these changes to the increase in safety, availability and efficiency of these vehicles.

“The biggest thing has been this huge demand for crossovers and SUVs,” Sewell said. “Around the time of the recession, and just thereafter, the market essentially was about 30 to 40 percent crossovers and 60 to 70 percent passenger cars, and that is completely inverted today. It is upwards of 70 percent crossovers and SUVs, versus passenger cars. Some articles back in 2009 were calling for the end of the SUV, and the literal exact opposite has happened, which is kind of fascinating.”

Contrary to popular hopes and beliefs, Sewell believes the prospect of flying cars is still a long way away.

“It’s hard for me to fathom that in 30 years, that’ll be a meaningful aspect of transportation,” Sewell said, “but you could go out to Silicon Valley and ask somebody the exact same question and they may feel very differently. You’re a little bit of a product of where you’re from. I think you’ll see different global markets adapt to this new technology at different rates.”

No matter what changes occur in the future, Sewell feels ready to adapt his company to the needs of its customers.

“Whatever the customer journey looks like in the future, whether that’s more online, more in person, some combination of both, we will be ready for it,” Sewell said.

WE ALWAYS DESCRIBE
THE FUTURE AS A SET OF
SCENARIOS — DIFFERENT
FUTURES, DIFFERENT
STORIES — NOT RADICALLY
DIFFERENT, BUT ENOUGH SO
THAT YOU MIGHT LIVE IN
THIS WORLD ‘A’ VERSUS
THAT WORLD ‘B.’

— futurist Peter Bishop

►STORY Colin Campbell, Han Zhang, Jack Davis PHOTO Courtesy Carl Sewell III ’02



PHOTO ILLUSTRATION Daniel Sanchez, Tyler Nussbaumer, Abe Echt