



AT STU GOV TONIGHT
The renewal of the New York Times subscription fee, paid for by Student Government, will be debated at tonight's meeting.

»» **ONLINE**

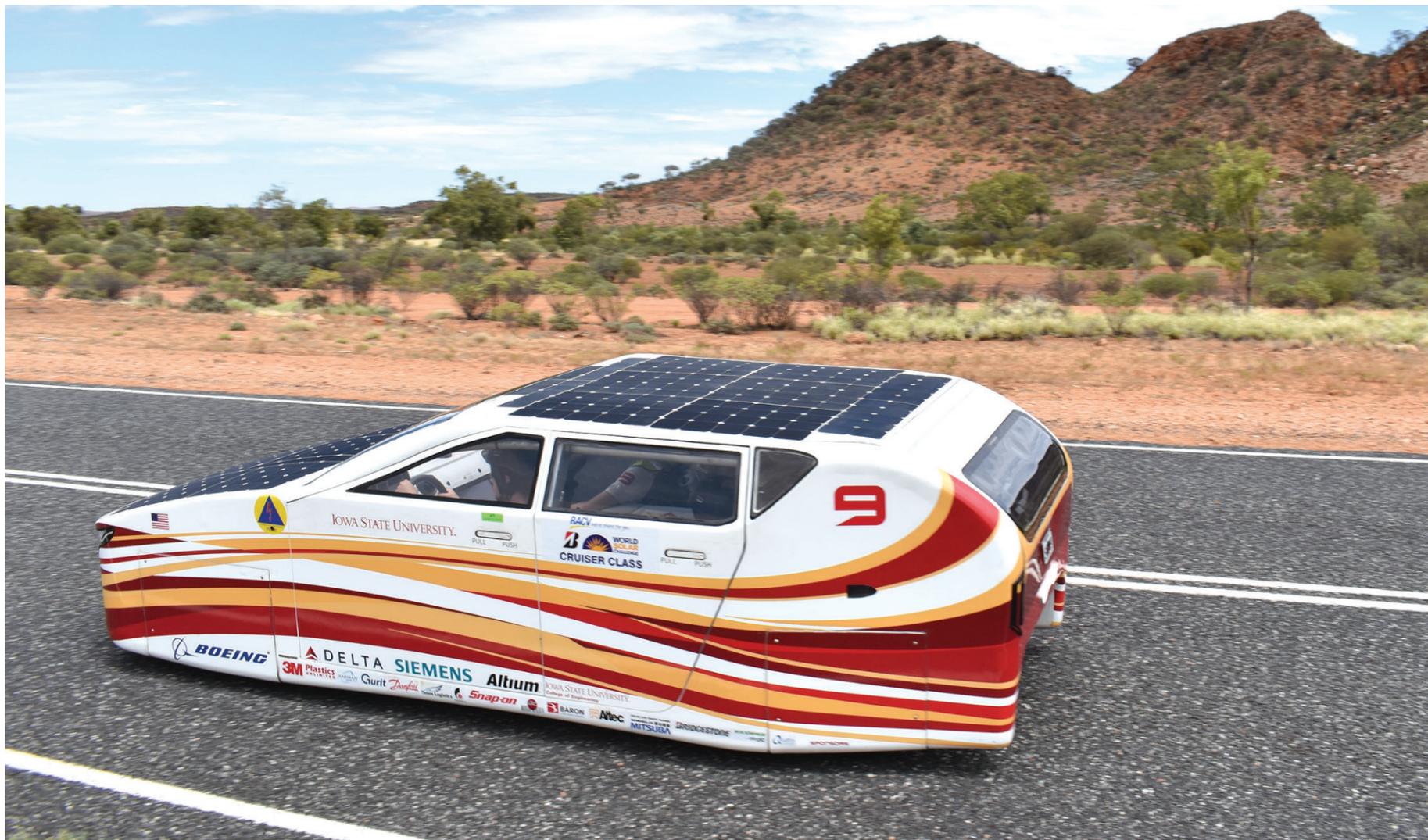


STREAMING: THE NEW CABLE
Streaming has replaced cable in the past decade by providing a wide variety of content at a lower price. But challenges are creeping in.

»» **PAGE 7**

CLUB

Solar car returns from AU



COURTESY OF ELLIOT SUITER

Iowa State's solar car team, Team PrISUm, had a different goal from the other teams at the World Solar Challenge in Australia. The team wanted to create a car that would be more similar to modern consumer cars than the other solar cars. The idea was to achieve efficiency and practicality with a green energy source.

The World Solar Challenge (WSC) is a biennial event that sees teams from around the world compete to cross the Australian continent in a solar car, beginning in the Northern Territory of Darwin, and finishing in Adelaide, South Australia.

In total, the race is over 1,800 miles long. Teams have just six days to complete the journey.

Team PrISUm, the ISU solar car team, began their pursuit of the WSC over two years ago. However, their main focus wasn't to win the competition, but to change how the world looked at solar cars.

"Our goal was to build a practical car," said Matt Goode, race lead for the 2017 WSC. "We wanted to change the paradigm of transportation with Penumbra. There aren't many U.S. competitions that highlight the use of a multi-seat car, so we kind of had the vision to build our car and apply for the WSC at the same time."

Penumbra, PrISUm's current car, features much more practicality than most other solar cars. It has four doors, four seats, an easily accessible trunk and an on-board touch screen multimedia display that can be found in most newer cars today.

Their car was bigger, less aerodynamic and heavier than most other cars in the competition.

"But it was safer, roomier and had more cargo space," Goode said. "And that's what we wanted to achieve with this car."

One of the biggest things the team had to focus on leading up to and during the competition was communication.

"It was really important for everyone to communicate with each other on what they were doing so that each system works together on the car," said Andrew Mallek, systems director for the car. "There were also logistical

challenges that come with shipping a car across the world, and that proved to be pretty difficult for us and other teams."

PrISUm partnered with Boeing to have their battery pack flown from the U.S. to Australia. The team had to get a handwritten note from the head of the Department of Transportation in Washington, D.C. to authorize the battery pack to be flown on an aircraft.

The team was also only able to find one company that would trailer their battery pack on land from Ames to the airport, due to the dangerous nature of lithium-ion batteries.

"There are a lot of dangers that come with working with [lithium-ion batteries]," said Jason Cheng, member of the electrical team on PrISUm.

"The batteries are a really good storage device because of how they react, but on the other hand, it means that reaction is very dangerous," Cheng said. "It has a tendency to use itself as fuel."

The team experienced some of those dangers firsthand when some dust made its way onto a printed circuit board. Goode said due to the iron content of the Australian dust, it shorted a circuit and caused 144 volts to run through a high-resistive area, leading to a smoking battery box.

Luckily, the team had preventative measures in place to prevent the whole battery pack from catching fire, but it created a lot of stress for the team while they were testing before the competition in Australia.

Heavy rainfalls during the week also led to the team having to rethink the strategy of the race.

"The rain and lack of sun go hand in hand for this sort of thing," said Elliot Suiter, member of PrISUm.

BY MITCHELL.LAFRANCE
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COURTESY OF BRIDGESTONE WORLD SOLAR CHALLENGE

Team PrISUm traveled to Australia to compete against other solar car teams at the World Solar Challenge. Teams must travel over 1,800 miles in the span of six days.

»» **SOLAR CAR** PG8

STUDENT LIFE



SARAH HENRY/ IOWA STATE DAILY

Collin Hillinger, a freshman in pre-architecture, has Osteogenesis Imperfecta, also called brittle bone disease. The disorder is caused by low quality or lack of type I collagen.

Student informs on illness

BY TIANA NICHOLSON
@iowastatedaily.com

Collin Hillinger wants to raise awareness for Osteogenesis Imperfecta, also known as brittle bone disease.

Collin Hillinger wants to raise awareness for Osteogenesis Imperfecta, a genetic disorder which causes bones to break easily.

Brittle bone disease has affected Hillinger for his entire life. It is a genetic disorder which causes bones to break easily, sometimes with little or no cause. This is due to poor quality or lack of type I collagen.

He was diagnosed with the disease before he was even one year old. At three months, Hillinger's mom tried to adjust the blanket she was holding him in and accidentally broke one of his legs.

Over the next nine months, he broke two more bones and the doctors concluded that he is affected by brittle bone disease.

Hillinger is from Sioux City, Iowa. He attended Lawton-Bronson High School and credits the small town atmosphere for helping him feel comfortable and safe being himself.

He has two older brothers and a younger sister who, along with his parents, do all they can to help make things easier for him.

"I'm kind of the favorite of the family," Hillinger said.

In second grade, he remembers walking and running. The summer after, he slipped and broke a femur, putting him in a wheelchair almost indefinitely. He occasionally uses a walker now.

He has fractured bones throughout his whole life.

"My parents lost track in elementary at 60-something fractured bones," Hillinger said.

He has dealt with accessibility problems throughout his life as well.

As he ages, he has experienced more places adapting to wheelchairs, but still sees it as an issue.

"They have really skinny doorways or like doorways that have like a step or two or three or that sort of thing," Hillinger said.

He doesn't see these problems on campus, however, he has run into a few issues in Ames, naming no place in particular.

Hillinger is currently a freshman in pre-architecture, and says his interest was peaked by his father's work with design.

He has always been curious about why buildings are structured the way they are. While handicap accessibility was not a part of his decision to study architecture, it is something which he will always consider throughout his career.

He consistently works toward informing other people about his disability. Hillinger emails his professors at the beginning of each semester, so they have a better understanding of him. He also welcomes other students to ask him questions.

Hillinger has collaborated with the ISU Student Disability Resources Office in order to reach his goal of raising awareness for Osteogenesis Imperfecta.

He wants people to know there are students like him on campus, and people like him in the world.

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The Economy and You: Separating The Facts from the Fiction

Peter Dunn

Peter Dunn is a personal finance expert known as *Pete the Planner*® with a USA TODAY financial advice column and The Million Dollar Plan Podcast.

**Wednesday, November 1, 2017
8 pm – Sun Room, Memorial Union**

Greater Iowa Credit Union Greater Iowa Credit Union Business Lecture Series

Sponsored by: College of Business, Greater Iowa Credit Union, Committee on Lectures (funded by Student Government)





CAMPUS

Knitting club promotes new skills

BY ZACH.STREUBER
@iowastatedaily.com

For Jenna Averhoff and Carolyn Simon, knitting has been a great way to socialize, relax and learn some new skills that are useful in their everyday lives. The junior in chemical engineering and senior in apparel, merchandising and design are passionate about their relatively new Knitting Club at Iowa State and discussed it in a question-and-answer session with the Daily.

So first and foremost, what is the knitting club?

Averhoff: A group of knitters and crocheters who just meet and knit together.
Simon: It is bringing a more social aspect to knitting.

When does your club meet?

Simon: Sunday nights at 7 p.m. in Carver 282.

Are there group projects that you do, or do you just get together and knit separately in the same room?

Averhoff: Currently there is no group project, we just kind of knit together and we also teach each other different things too, I taught people how to knit, or how to purl; we just help each other out.

How did you join and how did you find the knitting club?

Averhoff: I started it. I had a knitting club in high school that I enjoyed and my friends taught me how to knit and so I came to college and was like “I want to knit” and with other people too, but there wasn’t any clubs or anything for it so I started my own.

How long ago was that?

Averhoff: I started it the spring of my freshman year, but we have only really been active for a year.

Who can join? Do they need any experience?

Averhoff: Nope, anyone can join and we are willing to teach anyone to knit or crochet or whatever they want to learn so they don’t have to have any experience at all.

Simon: We don’t have a club fee or anything so we just ask that people bring their own supplies, but if you come the first time and don’t have anything a lot of people will let you borrow [supplies], so you can actually learn.

What are both of you working on now?

Simon: Oh goodness. I’m working on a blanket. I’m crocheting [it], but it’s kind

of a longer process than I imagined.

Averhoff: I am trying to make gloves. I got it started last year and so I am picking up [where I left off].

On average, how much time do you put into your projects?

Averhoff: If I’m just doing a scarf, it will probably take me a few hours, but I did a blanket and that takes way longer. You’re not going to finish a project in one knitting club meeting which is an hour, it’s going to take longer than that.

How many members do you have in the knitting club?

Averhoff: There is a good 20 or 25 that will show up on average, on a knitting club day.

Why should others join the knitting club?

Averhoff: It’s a good opportunity to learn a new skill, if you don’t know how to knit, or if you already do, just to be able to knit with other people, improve your skills and learn more things. It’s fun to make your own scarves and other things that you wear and use, like blankets.

Simon: It’s a great stress reliever too. You can just take a break and focus on one thing and go at your own pace.

NATE CAMM/ IOWA STATE DAILY
The club was founded by Jenna Averhoff (second from right) after leaving her high-school knitting club to find none at Iowa State.

>> Finding a club for you

Students can see a full list of current clubs and organizations at www.stuorg.iastate.edu. You can search for interests by category, name or description.

ADMINISTRATION

Process to select the next CALS dean explained

BY MADELINE.MCGARRY
@iowastatedaily.com

The next search process is already underway following the selection of a new Iowa State president.

Following the appointment of Wendy Wintersteen to become Iowa State’s 16th president, administrators are now looking to fill her previously held position as the dean of the College of Agriculture and Life Sciences.

The transition will closely resemble the selection process to determine the president of the university.

Unlike the selection process for the university president, the new College of Agriculture and Life Sciences dean will be chosen by the Office of the Senior Vice President and Provost, the entity responsible for overseeing Iowa State’s academic programs, tenure decisions and faculty appointments.

Rob Schweers, director of communications for the Office of the Senior Vice President and Provost, said the standard process would be conducted as follows:

- » Selection of interim dean
- » Selection of search committee and chairs
- » Selection of search firm (if applicable)
- » Formal launch of search
- » Collection of nominations and applications
- » First round of interviews (often at an off-campus location)
- » Finalist interviews (on campus)
- » Selection of the new dean

President Wintersteen is not the first “internal candidate,” or College of Agriculture administrator more specifically, to be appointed to the top position. Seaman Asahel Knapp and Adonijah S. Welch also led the agriculture program at Iowa State prior to becoming president of the university.

The College of Agriculture has recently been presented with opportunities to expand, particularly as it relates to establishing the new feed mill and grain complex. A new minor in feed technology will also incorporate courses from the areas of both animal science and agriculture-systems technology.

The new endeavor, being funded entirely by private donations, has created the opportunity to broaden the relationship between the College of Agriculture and agricultural engineering majors.

“I’d like to see the opportunity for [the new College of Agriculture dean] to be open to trying to interconnect a lot of the majors within CALS and the College of Engineering,” said Trevor Stevenson, a graduate student-assistant for the department of agricultural and biosystems engineering.

The College of Agriculture and Life Sciences received nearly \$250 million in donations during Wintersteen’s tenure as dean. During her presidential announcement address, the president-select discussed her objective to further facilitate the Forever True for Iowa State campaign in conjunction with the Iowa State University Foundation.

“It will help us build a world-class research and education set of facilities, and provide significant support for building excellence in our teaching, research and extension programs,” Wintersteen said.

POLICE BLOTTER

10.28.17

Denzil Glen Miller, age 19, of 917 Welch Ave Unit 3343 - Ames, IA, was arrested and charged with public intoxication at 838 Welch Ave (reported at 12:14 a.m.).

Nicklas James Olthoff, age 23, of 310 8th St N- Humbolt, IA, was arrested and charged with operating while intoxicated, excessive speed, and unlawful possession of prescription drug at State Ave and Arbor St (reported at 1:16 a.m.).

An officer assisted an individual who was experiencing medical difficulties at Helser Hall (reported at 1:32 a.m.).

Christopher William Vanderpool, age 25, of 575 Finch Ave - Dows, IA, was arrested and charged with public intoxication at Knapp St and Welch Ave (reported at 2:22 a.m.).

Pierce Samuel Hanway, age 25, of 3902 Ontario St - Ames, IA, was arrested and charged with operating while intoxicated and failure to use headlamps when required at Lincoln Way and Morrill Rd (reported at 2:26 a.m.).

Cole M Weiler, age 18, of 1210 SW 28th St - Ankeny, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 10:25 a.m.).

Alannah Lyn Olson, age 19, of 701 N C St Unit 4282 - Indianola, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 10:48 a.m.).

Keegan William Clark, age 18, of 2152 Lincoln Way Unit 3227 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 11:04 a.m.).

Tristan Elijah Thompson, age 18, of 2152 Lincoln Way Unit 3213 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 11:04 a.m.).

Casey John Briggs, age 19, of 2311 Chamberlain St Unit 504B - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 11:04 a.m.).

Skylar Nikolas Richter-Thompson, age 20, of 2311 Chamberlain St Unit 504 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 11:04 a.m.).

Abigail Rae Stoup, age 19, of 3750 Gardenview Dr - Grand Forks, ND, was cited for possession of alcohol under the legal age at Lot G3 (reported at 11:31 a.m.).

Samuel Ryan Baker, age 20, of 3021 Woodland St Unit 3021 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 11:31 a.m.).

Mari Lynn Biers, age 19, of 556 N 395 73Rd - Mendota, IL, was cited for possession of alcohol under the legal age at Lot G3 (reported at 11:49 a.m.).

Tristan Rd Davis, age 19, of 1509 Fort Jesse Rd Unit 3 - Normal, IL, was cited for possession of alcohol under the legal age at Lot G3 (reported at 12:01 p.m.).

Jonathan J Krier, age 19, of 217 Ash Ave - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 12:01 p.m.).

Clay William Bachman, age 19, of 1616 Toronto Rd Unit 6 - Springfield, IL, was cited for possession of alcohol under the legal age at Lot G3 (reported at 12:01 p.m.).

Emily L Obrien, age 20, of 382 Hovlid - 220 2nd St - Menomonie, WI, was cited for possession of alcohol under the legal age at Lot G2 (reported at 12:09 p.m.).

Raija Lynn Johnson, age 19, of 3732 Tripp St Unit 531 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G2 (reported at 12:09 p.m.).

Brenna Lynn Hopkins, age 19, of 317 S Wilmoth Ave Unit 3016 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G2 (reported at 12:09 p.m.).

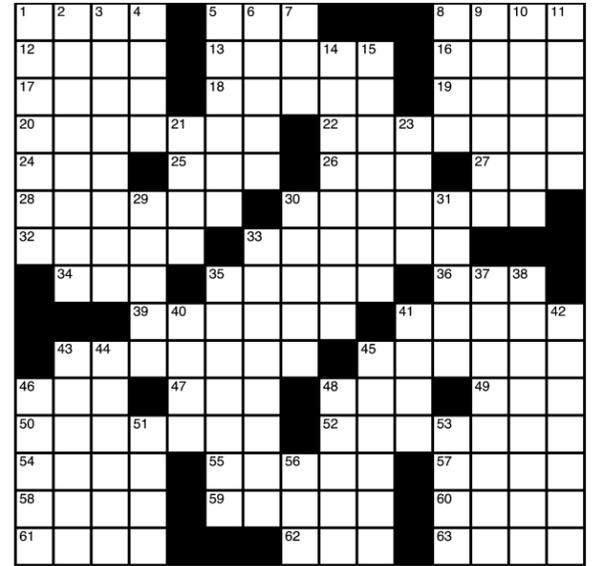
Samantha Elizabeth Eide, age 19, of 304 Lynn Ave Unit 4 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 12:13 p.m.).

Johnathan Allen Feigum, age 20, of 1300 Coconino Rd Unit 205 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 12:26 p.m.).

Alex Chase Winchell, age 20, of 2320 Lincoln Way-Unit 719 - Ames, IA, was cited for possession of alcohol under the legal age at Lot G3 (reported at 12:27 p.m.).

Adam Michael Degaetano, age 19, of 1163 Ward Rd - Batavia, IL, was arrested and charged with possession of alcohol under the legal age at Lot G3 (reported at 10:44 a.m.).

CROSSWORD



ACROSS

- 1 Biblical kingdom near the Dead Sea
- 5 Blue
- 8 Chew (out)
- 12 Old empire builder
- 13 Construction materials
- 16 Donald's address, in comics
- 17 Like a dotted note, in mus.
- 18 Bob preceeder
- 19 Tiny fraction of a min.
- 20 See 4-Down
- 22 See 8-Down
- 24 Dander
- 25 Some tech sch. grads
- 26 Soweto's home: Abbr.
- 27 Great time, in slang
- 28 Rain cloud
- 30 Fair ones
- 32 Julius Caesar's first name
- 33 Said
- 34 Tandoori bread
- 35 See 30-Down
- 36 Grilling sound
- 39 Macduff and Macbeth
- 41 Charity, e.g.
- 43 Slipped past
- 45 Sunday best

- 46 Soccer star Freddy
- 47 ___ Simbel, site of Ramses II temples
- 48 Michaels et al.
- 49 Galoot
- 50 See 51-Down
- 52 See 53-Down
- 54 "Was ___ loud?"
- 55 Having no room for hedging
- 57 '20s tennis great Lacoste
- 58 Designer Saarinen
- 59 Cynical response
- 60 Leftover bits
- 61 40th st.

DOWN

- 1 Not where it's expected to be
- 2 Windsor resident
- 3 Scholarly milieu
- 4 With 20-Across, working again, aptly
- 5 Fine cotton threads
- 6 Awards named for a location
- 7 Kids' card game
- 8 With 22-Across, what red hair often does, aptly
- 9 Banner
- 10 Amtrak speedsters
- 11 Store with a star
- 14 Choruses

- 15 Queasy near the quay
- 21 Roman god
- 23 Earned
- 29 Squeeze plays involve them
- 30 With 35-Across, a financially sure thing, aptly
- 31 Pelé's first name
- 33 Jackson follower
- 35 1995 Will Smith/Martin Lawrence film
- 37 Running pair
- 38 Malicious types
- 40 Try, as a case
- 41 Record
- 42 Seer's challenge
- 43 Corrected, in a way
- 44 Dawn goddess
- 45 Prefix with carbon
- 46 Gallic girlfriends
- 48 Running back Haynes, first AFL player of the year
- 51 With 50-Across, do some self-examination, aptly
- 53 With 52-Across, trivial amount, aptly
- 56 Equinox mo.

SUDOKU BY THE MEPHAM GROUP

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

Complete the grid so each row, column and 3-by-3 box (in bold borders) contains every digit, 1 to 9. For strategies on how to solve Sudoku, visit www.sudoku.org.uk

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The Iowa State Daily welcomes comments and suggestions or complaints about errors that warrant correction. To submit a correction, please contact our editor at 515-294-5688 or via email at editor@iowastatedaily.com.

IOWA STATE DAILY

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PERIODICALS POSTAGE

COLUMN



COURTESY OF GETTY IMAGES

Transitioning to college is difficult for most students. For students from out of state, it can be even more difficult being so distant from family and friends.

Out of state students unite

Transition harder far from home

BY MEGAN.PETZOLD
@iowastatedaily.com

For some students, college is already an extremely scary thing to endure. Adjusting to a new city, new friends and everything else that's new can make the large campus seem even larger. To add on to that, the fact that you are the only student from your high school to go to the college of your choosing is an even harder thing to face. No one likes to be alone.

The good news is, you aren't alone! For the freshman class of 2017, there are 2,770 other students who are not residents of Iowa. Being an out of state student myself, these statistics make me feel better about being away from home.

However, with this in mind, I encourage everyone to be more considerate when talking to people. You never know what people are going through. There are some students who don't get to go home on the weekends to do laundry and visit their parents, pets or room. There are even kids who don't get to go home over breaks during the school year.

After spending the last 18 years living with our parents in the same situation, we now have to attempt to live on our own. We break ties with our parents, pets, siblings and

friends all in the same moment. Having to move on top of that can be destructive to a person's mental well-being.

The transition can be hard, but the best thing about Iowa State, for me, was getting involved in a learning community. I went from being a scared kid new to Iowa to a freshman among others who have the same interests as I do and may be experiencing the same fears as me. From homework help, picking up the slack if I were to miss a lecture or just getting coffee and talking, my new friends from the learning community made my situation so much easier.

It was hard for me to leave my friends from high school and come to a new state for college, but now I have something in common with the other 43 percent of freshmen who are in the same situation as I am.

In the end, it doesn't matter where someone comes from, it's what you do with your situation that makes you who you are to others. If you want to make friends, go make some. Talk to the person who sits next to you in chemistry, get involved in a club you're interested in, go to hall events, go out and do things! The experience is what you make of it, so make college the best experience you've ever had.

EDITORIAL

We need the Financial Protection Bureau

The Consumer Financial Protection Bureau (CFPB) was created in 2011 to educate and support individuals who faced a variety of problems with their banks and other financial institutions. The CFPB has been extremely effective; with its help, individual consumers have recovered almost \$12 billion.

In July, the CFPB finalized a ruling that gave consumers the right to join together in class-action lawsuits against financial institutions. The rule was needed because individuals rarely have the resources to sue large companies for widespread abuses, such as the false credit cards Wells Fargo has admitted to issuing. But just last week the Senate voted by a one-vote majority to rescind this rule.

Class-action lawsuits are an alternative to "forced arbitration," which many contracts routinely require in their "terms and conditions." However, arbitration imposes restrictions on consumers and favors companies. The company sets the schedule and usually hires the arbitrator, and arbitration is binding, private and cannot be appealed. In a large majority of

arbitration cases, the company wins.

Opponents of class action-lawsuits say much of any settlement goes to lawyers' fees. Proponents of class-action lawsuits say the strength of large numbers of claimants, the publicity and the total dollar amount of settlements in successful suits all serve as deterrents. If companies can cheat customers with impunity, they will do so again. However, if companies face large, very public losses, they are more likely to be deterred.

Why not let consumers make an informed choice in how they seek remedy for wrongs done to them? We note that financial institutions themselves have filed class-action lawsuits against Equifax, the credit-rating company whose data on 143 million customers has been hacked. Banks and credit unions believe they will incur additional costs resolving problems caused by Equifax's poor information security and know that together they have a more powerful case. Shouldn't individuals have the same rights to class-action lawsuits the banks have chosen to exercise when they are harmed?

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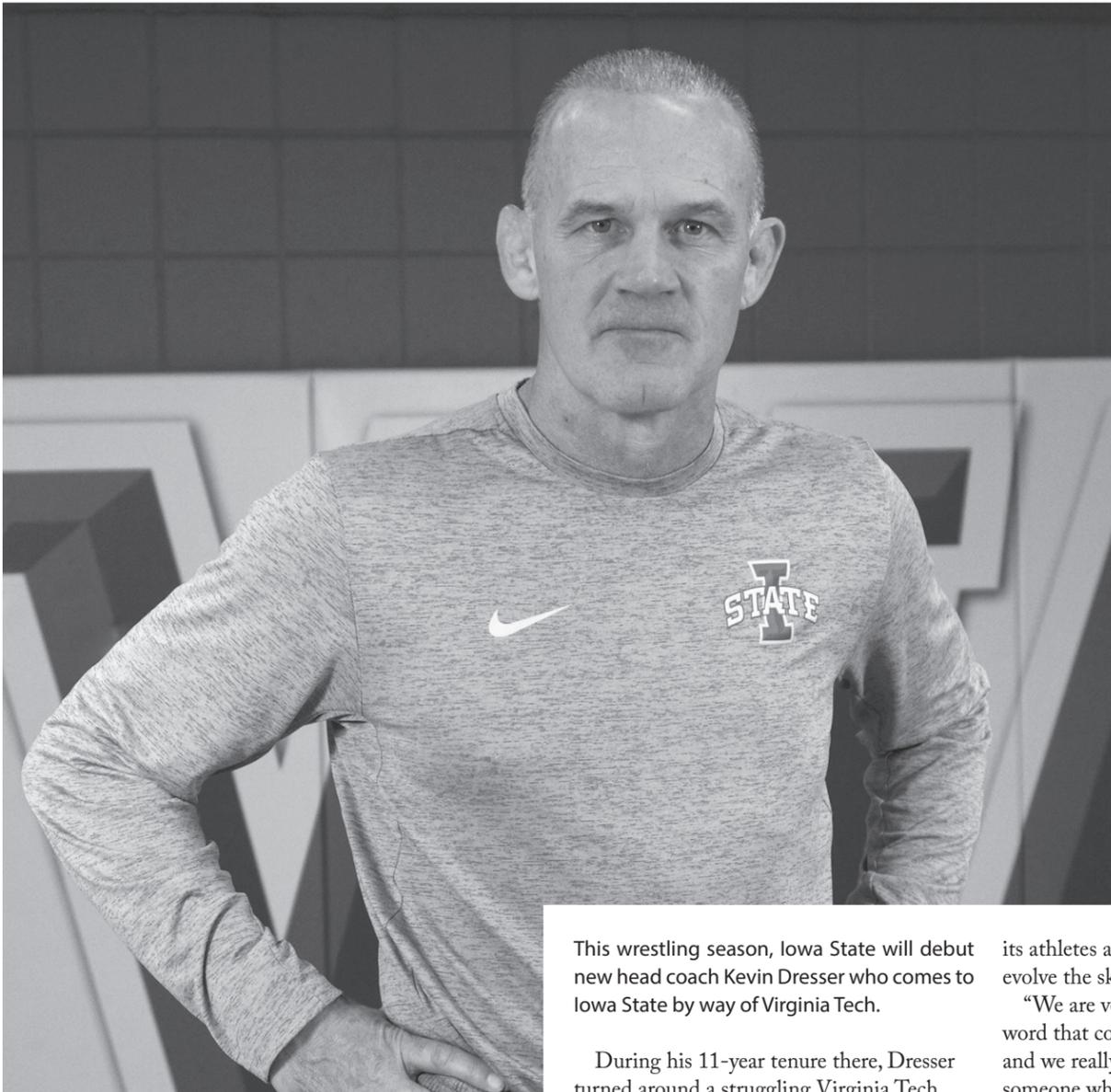
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Online feedback may be used if first name and last name, major and year in school are included in the post. Feedback posted online is eligible for print in the Iowa State Daily.

WRESTLING

Dresser recruits new Cyclones

BY JACK SHOVER
@iowastatedaily.com



HANNAH OLSON/ IOWA STATE DAILY

Head coach Kevin Dresser comes to Iowa State from Virginia Tech. This season Dresser said he is looking for a leader among the Cyclones.

This wrestling season, Iowa State will debut new head coach Kevin Dresser who comes to Iowa State by way of Virginia Tech.

During his 11-year tenure there, Dresser turned around a struggling Virginia Tech program. Before Dresser's hiring in 2006, the Hokies won only one dual meet. In Dresser's final season, the Hokies finished 18-1.

Other highlights of Dresser's time at Virginia Tech include five top 10 NCAA finishes, including a No. 4 finish in 2016. Dresser has also had wrestlers finish as All-Americans 25 times.

Part of Dresser's success stems from his ability to acquire great recruiting classes. At Virginia Tech, six of his recruiting classes finished in the top 11, according to FloWrestling.

Dresser's ability is already on display after acquiring a commitment from No. 5 pound for pound recruit in the nation David Carr, per FloWrestling. Carr's father wrestled at Iowa State and the legacy Cyclone projects to wrestle at 165 or 174 pounds.

Dresser is currently inheriting a Cyclone squad that finished 1-12 last season, but the future is bright with 30 of the 37 wrestlers being underclassmen.

Despite a rough last season, redshirt senior Dane Pestano is confident in the Cyclone squad for the upcoming season and the future.

"I hope that in the next few years and maybe even this year [we finish] top 10. I think that we have the wrestlers and the squad to do that," Pestano said.

Dresser believes the possible success and ceiling of this team is unknown.

"It is scary, but it is also exciting," Dresser said.

Dresser has called his current staff, consisting of associate head coach Mike Zadick, assistant coach Derek St. John and volunteer assistant Brent Metcalf, his "Dream Team."

The staff takes a hands-on approach with

its athletes and aims to help sharpen and evolve the skills of each individual wrestler.

"We are very hands on — intimate is a word that comes to mind. We really invest and we really care," Zadick said. "We'll take someone who maybe is decent and hopefully develop them to be very good and we'll take somebody who is very good and make them great."

The personality and coaching style of the staff helped redshirt freshman Jarrett Degen make an easy decision to transfer from Virginia Tech to Iowa State.

Degen is the only Hokie to follow the coaches to Iowa State and is currently listed as competing against redshirt sophomore Dante Rodriguez at 149-pounds.

Practice habits aside, Dresser is waiting for someone to step up and be the next big name at Iowa State.

The coaches also hope that someone steps up in a leadership role.

"I am hoping that we can get somebody to step up on this team and maybe be more of a verbal leader," Dresser said. "We have some really great guys that lead by example, but I think it would be a great thing for us right now."

Competition will be ripe throughout the season with multiple athletes listed competing at every weight class except for 141-pounds, which is occupied by No. 13 redshirt freshman Kanen Storr, the only ranked Cyclone, per FloWrestling and 184-pounds, which is held by Pestano.

Dresser noted the competition will be a staple of the program moving forward and recruiting blue chip athletes will add to the competition in the room.

The competition in the room will not be unique to the early season as Dresser said he would have a new athlete compete in the latter part of the season if it is warranted.

"We want guys that want to compete, and the old 'iron sharpens iron' is the way things are going to happen in Ames," Dresser said.

"We want guys that want to compete, and the old 'iron sharpens iron' is the way things are going to happen in Ames."

-Coach Kevin Dresser

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As streaming becomes the standard, individual cable networks will begin to bundle their streaming services. Cable will return due to increased saturation in the streaming market.

Cable will comeback

BY ALEXANDER GRAY
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At its advent, cable television was supposed to be the end all, be all for home entertainment. Hundreds of channels at your fingertips, providing content for every demographic. In 2007, a growing company called Netflix introduced a streaming service addition to their by-mail DVD rental service. It was broken, almost doubled monthly service costs, and offered a small library of only 1,000 titles. To pull a quote from a 2007 New York Times article, "The market [for streaming] is microscopic," [Netflix's CEO, Reed Hastings] said. "DVD is going to be a very big market for a very long time."

Despite initial doubts, by 2010 Netflix had grown to be the highest source of streaming traffic in North America. In 2011, Netflix announced their streaming and DVD services were being separated into two companies, but quickly reversed their decision due to high volumes of customer complaints. Finally in 2012, Netflix spun off DVD.com, finally severing the ties between the DVD and streaming sides of the service. As of the third quarter of 2017, Netflix's 109 million subscribers dwarfed DVD.com's 3.57, proving Hastings very, very wrong.

In the United States alone, Netflix has a whopping 50.85 million subscribers, just eclipsing the 48.61 million combined subscribers of the top six cable companies in America.

Without knowing any of the previously mentioned statistics, Netflix's popularity is no secret. You'd have a difficult time finding someone who hasn't used it at least once before. As far as home entertainment is concerned, it would seem like we have reached a golden age.

Netflix is not only destroying cable television, but it's also been a major factor in the reduction of piracy. According to research data provided by Sandvine,

since Netflix and other streaming services took off, a noticeable drop-off occurred in peak BitTorrent traffic. In 2010, Netflix and other streaming services took up 30 percent of peak internet traffic and BitTorrent piracy took up a massive 8 percent. In 2015, when the study took place, streaming service peak traffic jumped up to 61 percent, and piracy streaming down to 3 percent. While it was just a 5 percent drop, it was still a massive victory, and showed the rise of streaming services has had a significant effect on piracy.

Piracy, be it music, movies or video games, for the most part, has always been about the convenience of obtaining the item. Services like Steam have made downloading PC video games, a huge target of online piracy, extremely simple to download, and has them priced in a way that doesn't break the bank. Spotify offers a huge library of music to listen to, entirely free. Netflix has a catalog with plenty of movies and popular television shows such as "The Office," "It's Always Sunny in Philadelphia" and "How I Met Your Mother," that more than justify the monthly cost of using the service for many of its subscribers.

In 2017, online piracy is not the most difficult task, but it certainly isn't easy either, or a guaranteed way to successfully download a usable product. It can take a great deal of time to download, depending on the torrent's popularity, and once it's downloaded, you may discover that the movie you wanted is in Russian, or recorded on a flip phone in a movie theater. However, if a show or movie is available on Netflix, the combination of the low monthly price, and extensive lineup of other television shows and movies may potentially discourage piracy of the product. And, according to the research done by Sandvine, it seems to have done just that.

But how much longer will Netflix have these shows? As contracts with Netflix expire, production companies such as 21st Century Fox are making no effort to renew them, instead contracting a deal with Hulu or another service.

So what? Big deal. Some might say, "I'll just subscribe to Hulu as well so I can keep

watching Futurama. Hold on a second, Doctor Who isn't on Netflix anymore either. I guess I'll get an Amazon Prime subscription as well. Cool, there's a lot of HBO shows on Amazon Prime as well, let's watch Game of Thrones. Looks like I need pay \$14.99 a month for the HBO add-on for Amazon Prime."

At the lowest standard pricing available, streaming in high definition on all four services would cost \$42.22 a month, or roughly \$500 for a whole year.

Netflix, Amazon and Hulu have also all made a shift to focus on producing and licensing original content, instead of hosting TV and movies from other production companies. During this shift, other companies have realized they can cash in on the streaming service boom as well. CBS All Access has popped up recently, offering "Star Trek: Discovery" exclusively on their service. Despite recently making a deal with Netflix good through 2019, Disney has announced they will be removing their content from Netflix, and launching their own streaming service shortly after. Even Google has tried to cash in by creating the lackluster YouTube Red service.

If this feels familiar to you, it should. Where streaming services used to be an alternative to packaged cable deals, a chance to cut the cord with notoriously anti-consumer companies like Comcast or Time Warner Cable, it's only a matter of time before streaming becomes exactly like cable was.

I'm no market expert, but there is little doubt that in no time at all, companies will begin offering packaged deals for streaming services, turning Netflix and Hulu into little more than glorified on-demand channels. The packaged deal will seem like a fantastic deal at first, until prices begin to rise again, leaving the consumer in the exact same place they were when they decided to ditch their local cable provider.

One thing is absolutely clear, the golden age of streaming is nearing its end, and as per usual, the average consumer will be hurt the most for it. So where does that leave us? As this vicious cycle begins again, piracy will almost certainly increase again, but perhaps even worse than before, in this increasingly digital world we live in.

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COURTESY OF ELLIOT SUITER

Members of Team PrISUM pose in the Three Rivers Fountain in Adelaide, Australia. Jumping in the fountain is a tradition for teams whose solar cars complete the journey across Australia.

» SOLAR CAR PG 1

“The car can run just fine in the rain, but with the amount of rain we saw, we just didn’t have enough of a charge on the batteries to make it all the way to some checkpoints.”

Suiter explained that due to various circumstances and design trade-offs, the car was unable to finish a leg of the race on battery power alone.

“Most other cars were the single-seat, full solar array cars that most people are familiar with,” Suiter said. “Those cars are able to keep a longer battery charge, but with Penumbra, we weren’t really aiming to do that.”

PrISUM stood out from other teams by running the majority of the race with all four seats occupied by team members. Other cars in the competition had multiple seats, but were usually only filled by the driver, Mallek said.

Goode also went on to say the diversity of the cars in the competition was cool to see.

“A lot of the other cars have really good aerodynamics and are shaped to a sharp point, which is great for [aerodynamics], but it doesn’t make a car that you could go to the hardware store with,” Goode said.

“The other teams showed flaws in that they couldn’t do all the different activities we could,

like go shopping or fit things in their car, but they could go further on solar energy,” Goode said. “That’s what makes it fun though; there’s no right or wrong answer.”

The automotive industry as a whole is focused on funding alternative energy sources that allow everyday consumers to have access to cars that feature these fuel and energy sources.

“Tesla Motor Company was founded by a graduate of Stanford who was actually on their solar car team,” Goode said.

The push for a “greener” auto industry has inspired PrISUM to take that initiative and make a practical car, capable of the things everyday gas-powered cars can do.

“We were fortunate enough to be invited to test our car in the wind tunnel at Ford,” Suiter said. “Our physical model actually tested to be more aerodynamic than our digital model, so whatever imperfections occurred during the building of the car turned out to be pretty beneficial.”

The team also partnered up with various companies around the world to help test new products, as well as provide some free testing for those products.

“We’re essentially doing [research and development] for people like Bridgestone, who

gave us some of their special solar-car tires that provide lower rolling resistance and are also more aerodynamic,” Mallek said. “We’re also testing out new manufacturing techniques, application methods and different products for the solar car industry as a whole.”

Mallek went on to say that PrISUM is utilizing 3-D metal printing, 3-D printing carbon fiber and various composite structures on the car. Several companies native to Iowa have helped PrISUM with various 3-D printing methods for Penumbra.

The team is also excited to see where the car itself and alternative energy sources like hydrogen powered cars and biofuels end up in the future of auto industry.

“We want to be the break between the car of yesterday and the car of tomorrow, and we’re seeing the industry adopt little bits and pieces and applying them to cars of today,” Cheng said. “I think that will be more common than a complete change of everything.”

Reminiscing on the competition, some members recall camping under the stars, interacting with teams from other countries and witnessing the success that the team achieved in designing a car and driving it across an entirely different continent.

The team also expressed their enjoyment in

speaking with members of the public about their car.

“We really like letting people sit in the car and play with the touch screen,” Cheng said. “I remember someone asked to play with it and I told him to go for it, and he seemed really surprised and said that we were the first team to let him play around with the car.”

“We want people to slam the doors and get it dirty,” Suiter said. “We want them to experience what a solar car can be capable of, and that it doesn’t have to be any different from, in terms of practicality, their car they have now.”

When the team had finally crossed the finish line on the last day of competition, each member jumped into the Three Rivers Fountain in Adelaide. Jumping into the fountain is a tradition for those who finish the WSC.

“I think it’s really important for new students to find what they’re passionate about, and stop at nothing to pursue that,” Goode said.

“I think a lot of people are afraid of taking that risk, because it’s not cool or not the popular thing to do. But we set out to build a car that no one else was going to, and I am really happy with how it turned out. We chased a goal and got it, and that’s the message that our team wants to put out there.”


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