Alumni brings STEM to elementary students

The science, technology, engineering and math (STEM) fields have a large presence on Iowa State's campus. Youth outreach in the STEM fields has been a focus at the university with programs such as Taking the Road Less Traveled, the Student Role Model program and STEM Fest; but one alumna has gone above the typical means of outreach when it comes to encouraging students to take an interest in STEM.

Teresa Green, Iowa State alumna and Ames resident, has been honored as the North Central Iowa Region recipient of the 2018 I.O.W.A. STEM Teacher Award. Green, who received a bachelor's and master's degree from Iowa State, won the 2018 I.O.W.A. STEM Teacher Award for the North Central Iowa Region.

For a few years, Green taught as a general music teacher and librarian. After five years of teaching in different school districts, Green returned to Ames and has been teaching at Edwards Elementary School ever since. For 25 years now, she has taught within the Ames Community School District.

For a few years, Green taught as a general music teacher at Edwards before becoming the K–5 technology teacher and librarian.

She is a really nice teacher and she has a lot of crazy ideas," one fifth grade student at Edwards Elementary School said about Green. "Though Green received her undergraduate degree in instrumental music, she has always had a curiosity and fascination when it comes to STEM.

"I've always been interested in [STEM]. I have my own little workshop out in my garage and I am always out there taking things apart and messing around," Green said. "I just never really had the opportunity to teach it to the kids in this format until now.

About 10 years ago, Green was approached by one of her students, Ames High alum and current Iowa State senior in industrial engineering, Dagney Paskach, to form a junior Lego League at Edwards Elementary School. The First Lego League (FLL) started out with just girls in third grade and a few small teams.

However, after opening up to all students ranging from second to fifth grade the following year, the club expanded to nine teams.

"After that year we decided we just wanted to focus on the robotics because that's what the kids at this level really need, the robotics training," Green said. "We just really teach and focus on how to program with the EV3 robots and complete some challenges." Green established the Robotics Club the year after the FLL was implemented at Edwards Elementary School. The Robotics Club participates in the FLL Challenge each year which consists of programming an autonomous robot to score points based on creativity and design, teamwork and innovation.

Green also hosts a Maker Camp each summer for students at Edwards Elementary and surrounding schools. At the camp, kids learn how to sew, use soldering irons and wire circuits. The camp takes place in the school's Makerspace. A Makerspace is a collaborative workspace inside a school or library for making, learning and exploring ideas. Most Makerspaces include a 3-D printer, laser cutters, CNC machines, soldering irons and sewing machines.

After Green discovered the concept of a Makerspace, she immediately started researching and asking around to get one at Edwards Elementary. "Mrs. Green was always so inspiring," Paskach recalled. "(Students) would talk to her and she would make us feel like we could do anything."

Though it has been nearly 10 years since Paskach was last taught by Green, she still helps coordinate the Maker Camp each year.

Paskach said she hopes one day to work at the Science Center of Iowa to encourage children to get excited about the STEM field at an early age, just like Green.

Green teaches all students at Edwards, kindergarten through fifth grade. She explained that kindergarten and first graders are already learning coding through a program called Scratch Jr. "Every year, they are better and better," Green described working with young kids. "Once they get it figured out, they are so excited and it's amazing what they can do then."
How to run for Student Government elections

BY DANIELLE.GEHR
@iowastatedaily.com

Whether you’re looking to become president or a senator, now is the time to start thinking about Student Government campaigns.

Though voting day isn’t until March 9, required meetings for candidates start this week. Five informational sessions will be held this week and next week which are required for all candidates to attend.

Jacob Zirkelbach, newly appointed election commissioner, gave more information on what a potential candidate needs to know.

“hink the most important thing that [potential candidates] need to know, especially right now, is to go to those information sessions,” Zirkelbach said.

“Right now we want to make… the entrance barrier as low as possible.”

These informational meetings are required, but Zirkelbach said if extenuating circumstances keep people from attending the meetings, he can meet one-on-one with potential candidates.

After the last information session, executive candidate teams will be asked to meet one-on-one with the election commission to go over election code. Zirkelbach said this is to be proactive and avoid any campaign misconduct.

The next important deadline is Feb. 5. This is the first day people can start campaigning which is restricted before this date. By 9 p.m. that night, all candidates are required to send in their statement of intent which states they are running for office.

Anyone who misses this deadline won’t be placed on the ballot. “We’re going to be as accommodating as possible and get as many people to run that want to run,” Zirkelbach said.

These meetings are for both candidates for senate seats as well as executive candidates looking to be president or vice president of Student Government.

This is the first year Student Government will have a Women in Student Government info session which will take place on Jan. 25 from 7 to 8 p.m. in the Multicultural Center.

Zirkelbach said Rachael Barnes, senior in biological systems engineering, and Joe Latson, senior in global resource systems, and Zoey Shipley, senior in political science, put together the session.

“They wanted to have a women’s session where they talked about maybe specific barriers that women face within Student Government and how they overcame them,” Zirkelbach said, “and offer up a session that calm some fears from women looking to get involved in a field and a position that is typically dominated by men.”

The Student Government website said the session is “an opportunity for females to come together and learn about the difference they can make in Student Government.”

OTHER SESSIONS WILL TAKE PLACE:

- FEB 16
  This is the referenda and student initiatives deadline. These items are due by 5 p.m. at the 1580 MU, Election Box.

- FEB 19
  The candidate petitions are due on this date by 5 p.m. at 1580 at the Memorial Union, Election Box.

- FEB 20
  The vice presidential debate will take place on this date at 6 p.m. in Carver 101.

- FEB 26
  The presidential debate will take place at 7 p.m. in Gallery Room of the Memorial Union.

- MARCH 6 AND 7
  Iowa State students will be able to vote in the Student Government general elections. Official results will be announced March 9 at 7 p.m.

Iowa State helps animals

ARL gives pets a home

BY DANIELLE.GEHR
@iowastatedaily.com

The Animal Rescue League (ARL), founded in 1926, serves as Iowa’s largest non-profit animal shelter. Last year, ARL brought in 10,783 animals and facilitated the adoption of 6,940.

The main shelter is in Des Moines. Being just a 40 minute ride away, the shelter offers learning opportunities for Iowa State’s veterinary medicine students.

Some of Iowa State’s faculty and staff also spend time volunteering at ARL, even on holidays. John McCarroll, university relations director, and his wife spend Thanksgiving, Christmas, New Year’s Eve and more volunteering in order to give the staff some time off.

“I think I’m like a lot of our volunteers. We realize that the benefit is mutual. The benefit is as much to the human owner as it is to the animal,” McCarroll said. “The companionship, the friendship, emotional attachment has just as much benefit to us as it does to the cat or the dog or the horse or the bunny.”

McCarroll didn’t get involved with ARL until meeting his wife Mary McCarroll. Mary McCarroll has been involved since 1993 while her husband started getting involved around 2007.

John McCarroll said other Iowa State faculty help out at ARL, including entomology professor Donald Lewis and his wife. Mary McCarroll also volunteers by helping match people looking to adopt a cat with a new companion online.

“It’s like Match.com for people except it’s for cats and I spend probably 20 to 25 hours a month doing that,” Mary McCarroll said. “It’s a neat process and that’s probably where I spend most of my time right now.”

The couple currently has five cats, all from the Animal Rescue League.

“The benefit is as much to the human owner as it is to the animal.”

- John McCarroll

ARL pg8

COURTESY OF STEPHANIE FILER

John McCarroll, university relations director, poses with his favorite cat, Pinkiebell. He and his wife Mary volunteer with the Animal Rescue League on holidays to allow the staff time off.
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BY TARA LARSON
@iowastatedaily.com

One Iowa State alumnus was recently named as one of 31 nonprofit leaders from across the U.S. to participate in the Allstate Foundation Greater Good Nonprofit Leadership Program.

Jake Ament, 2001 graduate of Iowa State, is currently the director of Neighborhood Network at Local Initiatives Support Corporation (LISC) Chicago.

LISC is a nonprofit organization located throughout the country. It works with local neighborhoods and communities to make those communities stronger and healthier.

According to LISC’s website, it is one of the largest organizations supporting projects to revitalize communities and bring greater economic opportunity to residents. These include more affordable housing, better schools, safer streets, growing businesses and programs that improve the financial outlook of people. The nonprofit reaches seven million low-income Americans across the country.

“Specifically, what I work on here is neighborhood and community planning,” Ament said. “Chicago’s a big place and there’s a lot of very different neighborhoods. What the needs and vision in one neighborhood are may be very different from another part of the city.”

Ament heard about the Greater Good program through a colleague who had gone through the program a few years prior. He learned about how the program could be beneficial to his work and decided to apply.

“I really thought [the program] was a great opportunity to kind of build up some of those skills that I feel like I’ve come to through natural work but not necessarily had a formal training program,” Ament said.

The Greater Good program, now in its fourth year, was designed to help nonprofit professionals develop leadership skills. This program pairs nonprofit leaders with prominent academic practitioners and over 400 finalists applied.

According to the Allstate Foundation, the program was created in partnership with the Northwestern University Kellogg School of Management’s Center for Nonprofit Management, and the unique opportunity provides a combination of cohort-based academic instruction, one-on-one executive coaching and individual development opportunities outside the classroom.

Ament said although he was excited when he first heard he was selected to be a part of the program, there were some challenges as far as fitting in the training with a full-time job. However, once he sorted out those details, he could focus on his goals of what he hoped to get out of the program.

“I really am looking for tools that can help us describe a little bit more of the leadership we’re building here at LISC,” Ament said. “It’s a part of our programming as we work with local nonprofits and what we call capacity-building, trying to work with organizations making them stronger and to make this stronger connection of organizations and residents within a neighborhood.”
>> BUDDHIST NUN LECTURES ON HAPPINESS

Tibetan Buddhist nun Ven. Yuan Hao speaks in Memorial Union Sun Room Jan. 23. Her lecture focused on how to find happiness in our hectic world.

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CORRECTIONS
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.
Editorial: This is a response in a previous opinion piece titled "Eat Less Meat" that argues the benefits of veganism.

I am an animal science student here at Iowa State University and recently came across your opinion article: "10 Ways to Eat More Meat." As an animal scientist, I have been trained to decipher the differences between fact and fiction and question the credibility of sources. After reading your article, I have some concerns related to the opinions you put forth regarding the treatment we eat and how it is raised.

I want to set the record straight about the care and well-being of the animals we raise as well as our commitment to environmental sustainability. My first concern is about your misinformed statement regarding antibiotic usage in livestock. While we do our best to prevent illness in our animals, sometimes they get sick, just like humans. We provide antibiotics on a limited basis to make them feel better, just like humans. Animals get coughs or runny noses because they share the same water and feed. It is not because they are in unsanitary situations or too close together. It is our responsibility to ensure their health in the best way possible.

Genetic modification is a term used to describe a scientific method of altering the DNA makeup of a specific organism. The livestock you mention in your article are not genetically modified. They are simply raised with other highly productive, efficient animals, to produce even better offspring. It is called genetic selection, not genetic modification.

I am curious how you suggest decreasing the use of land and resources while also allowing animals more space. This directly contradicts your arguments concerning livestock production using too much land. As farmers, we are constantly balancing adequate space for each animal while improving environmental sustainability. According to the Environmental Protection Agency, only 2.8 percent of the U.S. greenhouse gas emissions come from animal agriculture.

Pig farms are using 78 percent less land, 41 percent less water and have a 35 percent smaller carbon footprint than 50 years ago. Perhaps we are at fault for not telling our amazing story of how farmers and their livestock go green every day!

I don’t believe fear-mongering is a fair and productive way to engage in conversation concerning our food consumption. I believe food choices are very personal, and we as Americans are fortunate to have a wide variety of options available. However, I would hope that these choices are driven by fact and not emotion.

Additionally, you made some statements regarding the nutrition of red meat in the diet. I would defer any questions regarding this subject to our peers in food science and human nutrition and invite them to shed some light on your fears.

Moving forward, I strongly encourage you to talk with a farmer to learn more about how animals are raised. Every farmer I have worked with is genuine, caring, and an expert in their field. They do their job day in and day out no matter the weather. For example, my brother had ice on his eyelashes earlier this week because he needed to feed the cattle, but it was far too cold.

Lastly, I urge you to find credible sources to back your arguments. I invite you to talk to various state or national livestock groups, for example, United Egg Producers, National Pork Board, National Cattlemen’s Beef Association and Animal Agriculture Alliance. It will make your future opinions factual, credible and trustworthy.
HOCKEY IN HILTON

BY SPENCER.SUCKOW
@iowastatedaily.com

That could be an accurate description of just about any athletic event at Hilton Coliseum nowadays. Cyclone fans have created a reputation for themselves as some of the most loyal and rowdy fans in the Big 12 Conference, and have made Hilton Magic a nationally known phenomenon.

As it turns out, however, Cyclone fans' reputation and Hilton's magic were both alive and well even decades ago, for a different team at Iowa State. Back in the year 1972, Cyclone Hockey moved into Hilton Coliseum and the fans proceeded to create a tremendous home-ice advantage at the venue. For a little over a decade, people would flock by the thousands to watch the hockey team in Hilton, until they moved out in the mid-1980's.

"Oh the weekend, we drew a little over 12,000 fans," said former Cyclone Hockey head coach Alan Murdoch. "Hockey fans are rabid. We would have cheering contests; I can remember that upper walkway just full of banners from fraternities, sonorities and residence halls. The atmosphere was very good."

The team previously played their games and practiced on an outdoor rink near Beyer Hall because the shade would keep the rink from melting. However, during the construction of Hilton Coliseum, a large donation was made to help with funding of the facility with the condition that the building be made suitable for hockey usage. Cyclone Hockey became tenants in the venue as a result.

According to Murdoch, 10 miles of piping was put into the concrete floor of the arena so the venue could support an ice rink. The coliseum opened on Dec. 2, 1971, but because of ongoing construction, the Cyclones actually had to wait until March of 1972 to play their first game in their new home.

That first game came as a part of a weekend series that was set up by Murdoch and then United States Air Force Academy coach Vic Heyliger, a six-time NCAA National Champion head coach and United States Hockey Hall of Famer.

Heyliger brought his Falcons, a NCAA Division I varsity level team, from Colorado Springs, Colorado, to Ames to take on the Cyclones.

"It was really quite exciting," said former team faculty adviser Jorgen Rasmussen. "It would be virtually impossible that Iowa State was able to beat them, but they thought they were going to come and really slaughter Iowa State."

Perhaps it was due to the level of coaching talent residing on their bench, but it indeed appeared the Air Force Academy's players didn't take the Cyclones seriously. Murdoch himself remembers finding writing in the locker room after the game that said the Falcons' mission was to beat the Cyclones by 20 goals.

That didn't happen, as Air Force players soon realized despite the Cyclones status as a "club" team, the construction of Hilton Coliseum actually allowed Iowa State to recruit high level talent. The Cyclones ultimately didn't win either game in the series, but each contest was much closer than the Falcons anticipated.

"Air Force wasn't the only top level competition to visit Hilton. With intentions of going to the Division I level, the Cyclones hosted as many big-time opponents as they could to build legitimacy, even getting the United States Olympic Men's Hockey Team to visit for a game in front of roughly 10,000 fans."

The game was played on the anniversary of Pearl Harbor Day, and so I told them I built the Olympic team's confidence on Pearl Harbor Day," Murdoch said. "We got bombed 22-1."

Rasmussen said: "This is a good venue."

Even with other varsity teams now having their own spaces to practice, the hockey team would still have to raise the funds for boards and proper piping on their own, given their non-varsity status. Without the required materials, the idea of Cyclone Hockey ever playing a game in Hilton is nothing but a pipe dream.

Even though the arena will almost certainly never host the team again, the venue nonetheles created great memories for a generation of Cyclone players, coaches and fans that make for great stories.

And despite the fact that the current team will never get to experience Hilton Magic from a player's perspective, they can still imagine what such an environment would've been like.

"I'm very jealous of the chance that they got to do something like that," said current junior forward Tony Uglem. "It's tough to imagine what that place would be like with an ice rink in the middle of it. I've played in rinks where you're surrounded 360 degrees by fans and that'd be something really cool."
New York-based pop singer MAX, known legally as Max Schneider, will be performing Wednesday night in the Great Hall of the Memorial Union.

For Schneider, music has been a love and passion from an early age. With his emotional and energetic style, Schneider hopes his music will encourage people to “let their guards down and truly enjoy who they are.”

While his career has taken off, MAX still remembers where that love of music began. “Well, I started singing and dancing at around four by reenacting Broadway shows I’d see on my living room table in my underwear,” Schneider said. “Basically now I’m doing the same thing with more clothes on most of the time.”

To Schneider, everyday is a surprise. While it may have always been his dream, he is still “constantly blown away” by the reach of his music to different countries. “Being able to tour all over our home country and then to be able to have people show up in different countries for shows is extremely humbling,” Schneider said.

MAX has learned a lot on his musical journey, but one skill will always remain the same. “I’d say the main one is to really trust my gut. I didn’t always utilize that skill in the beginning of my career but the moments I did were the ones I was always the most proud of. Now I only trust and listen to my gut for all decisions,” Schneider said.

While performing is always a highlight for Schneider, it’s the people that make touring so special for him. “I’d say my favorite part is meeting people that the music really connects with,” Schneider said. “No matter the country or place we go, when it truly translates and I meet a fan who I feel like I’ve known my whole life because they are so honest and passionate, that never gets old.”

One of the most beneficial experiences in Schneider’s career is him “being open with [his] marriage.” One of Schneider’s favorite memories is writing “Lights Down Low” to propose to his wife, a moment that will stick with him forever. “A lot of people told me if I revealed I was married it would be career suicide, but taking the dive to be honest with our fans resulted in people being even more connected with us,” Schneider said.

“People started using ‘Lights Down Low’ as their wedding songs, and now it stands for love no matter their sexuality,” Schneider said. “For us, fighting for the things we believe and utilizing the music to spread the message has been the greater lesson I’ve learned.”

In the future, Schneider is looking forward to connecting with fans throughout the world, making stories along the way. “I only hope to keep making truthful music and connecting to people with it,” Schneider said.

“Bigger shows and traveling to more and more places would be wonderful….It’s really just the fans and the excitement of creating new stories and energies with the music,” Schneider said. “For those who are lovers of music, Schneider implores them to never give up. “Fight for who you are and what you believe in. You will have to fight for it and prove your beliefs every day no matter the success that comes,” Schneider said. “There will be more times you are in the trenches than times you are basking in the sun and glory. Soak up every moment and keep believing no matter what.”

Schneider’s most recent album “Hell’s Kitchen Angel” was released in May of 2016 on DCD2 Records, which was founded by Fall Out Boy’s Pete Wentz. Chicago native John Splithoff will open the show.

The show starts at 8 p.m. and doors open at 7 p.m.

Tickets are $20 to the general public and $15 with a student ID. Tickets can be purchased at the M-Shop box office or online via midwestix.com.

By Emily Urban
"All of them are senior kittens. We like to adopt older cats. They seem to have a harder time finding homes," Mary McCarthy said. "I think it’s a hazard of being a volunteer. We’re out at the shelter a lot, so when we see a cat that we fall in love with it’s hard not to take them home."

The McCarrolts also take part in the foster program where an animal temporarily stays with a family to give them the space to run around and explore which isn’t always accessible at a shelter. On top of their five cats, the couple typically fosters an additional cat.

Mary and John McCarthy both said at the end of the foster’s stay, it is always hard to let them go.

“We get attached to them. They fit right into our household,” Mary McCarthy said. “It’s hard, but we’ve been doing it for so many years, we know that they’re always going to go into a good home and many times we actually get to meet the potential adopters, so that’s really helpful.”

Betsy Salmon is one of three foster coordinators at ARL. She said she also has the title of meow manager. Salmon said depending on the time of year, ARL has greater need for certain types of foster families. In the spring, they need more people with neonatal or baby bottle experience, which are kittens under about four to five weeks of age.

In the summer, they need what she called “shelter cat-get-a-way” foster homes. These are for cats that are ready for adoption and don’t need any special care, but will be more comfortable in a home with more space.

Once fall hits, ARL looks for cat behavior homes. These are for cats that come in more fearful or fearful and may be tamed down in a foster home.

Salmon specializes in cats, but ARL’s foster programs extend to barn animals, dogs and smaller animals like rabbits.

There are also programs for pet owners to ensure their pets will be taken care of in the event their pets ouline.

Another program matches cats with offices looking for a workplace pet. More information on the foster program can be found at https://www.arl-iowa.org/get-involved/foster/.

In many cases, foster families become what ARL calls “foster failure.” This term sounds negative, but really means a foster family ended up adopting one of their foster animals.

“It happens a lot more often than folks really realize and it definitely happens more often to newer fosterers than it does to experienced fosterers,” Salmon said.

She estimated that about 75 percent of the time, newer fosterers end up adopting.

Salmon also fosters on top of the five cats she owns. She said she has a room which gives half to the fosterers and half to her cats.

She typically takes in bottle-baby kittens and said she will have about 75 to 100 of these kittens go through her home in a year, which are then sent out to other foster homes.

“(Fostering) can be rewarding for yourself and for the animal,” Salmon said. “So the animal is getting a break from being in a shelter environment and getting that one-on-one attention that it definitely deserves and it gets that enrichment. On top of that, having a pet around, especially a little adorable kitten, is super healthy.”