

The Horizon Newsletter

"Our goal as teens of this community is to inform the public in the Triangle area about our generation's view on topics in our world. We hope to connect with others of our age and allow them to voice their opinions on relevant issues. Above all, we would like to encourage our peers to do their part as active members of this society."

Hello everyone! Happy April Fools! Don't worry, there are no jokes in this issue, just facts. We hope you enjoy this issue of the Horizon Newsletter!

April 2018 Issue

Local Events

By: Shrihan Dadi

Some of this month's local events:

- ❑ **NC Courage Women's NWSL Professional Soccer Match vs Seattle Reign**
- ❑ Date: 04/18/2018 7:00 PM - 9:00 PM
- ❑ Location: WakeMed Soccer Park
- ❑ 201 Soccer Park Drive Cary, North Carolina 27511
- ❑ Watch the epic Women's Soccer Tournament between our home NC vs Seattle. NC Courage has beaten Seattle before so go on out there and give them all your support!
- ❑ **Wake County Senior Games SilverArts**
- ❑ Date: 04/20/2018 10:30 AM - 12:00 PM
- ❑ Location: Cary Senior Center
- ❑ 120 Maury Odell Place
- ❑ Cary, North Carolina 27513
- ❑ The Cary Senior Center is pleased to host the 2018 Wake County Senior Games SilverArts Competition. Over 50 local artists ages 55+ will be represented and compete for awards. Registration for this show will end in February. Call the Cary Senior Center at (919) 469-4081 for details beginning January 22.
- ❑ **Triangle's Got Talent**
- ❑ Date: 04/21/2018 6:00 PM - 9:00 PM
- ❑ Location: The Cary Theater
- ❑ 122 East Chatham Street

- ❑ [Cary, North Carolina 27511](#)
 - ❑ The Cary Teen Council invites you to come support local teens as they sing, dance, juggle and more on stage at The Cary Theater! All proceeds from this event will be donated to the Relief for Recreation scholarship fund.
 - ❑ **ACC Men's and Women's Tennis Championships**
 - ❑ Date: 04/25/2018 - 04/29/2018 (all day)
 - ❑ Location: Cary Tennis Park
 - ❑ [2727 Louis Stephens Drive](#)
 - ❑ [Cary, North Carolina 27519](#)
 - ❑ Cary Tennis Park is excited to host the ACC Men's and Women's Championships! These great matches never disappoint and draw a great crowd. Come cheer on your favorite ACC team as they battle for the title.
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Health

Cancer

By: Pavitra Madala

There are so many diseases in the world. Some can be cured and others have been killing people for centuries. One example of this is cancer. Cancer is a group of diseases in which the body's cells are altered in appearance and function. This disease is the second leading cause of death in the United States, counting up to 22 percent of all deaths in this country. What can we do about this?

Extensive research has been done in the field of oncology to determine the best and most effective methods to cure cancer. However, according to new research, there's more to berries than their taste. Their pigments, or anthocyanins, could help find ways to stop cancer and slow down the aging process. Anthocyanins are a type of flavonoid. It can help protect us from some human diseases, such as cardiovascular disease or type 2 diabetes.

So, in a freshly plucked berry, there is more than we expect. To find out more, visit

<http://www.aicr.org/publications/newsletter/2013-spring-119/berries-seem-to-burst-with-cancer-prevention.html>.

Shooting at Youtube HQ:

By: Sumant Anantha

A woman opened fire at the Youtube HQ, shooting three people and then killing herself. The woman's name was Nasim Najafi Aghdam, she was upset with Youtube's practices and policies. Police say she was practicing shooting at a gun range. Youtube restricted her videos raging her. Police talked to her eleven hours before the attack occurred. Aghdam is an animal rights activist who helped treat animals kindly. She had a grudge against youtube because they took action on her vegan videos which infuriated her. Aghdam's Brother

warned the police that she might do something to the Youtube HQ since she was found on a mountain near the HQ. Police questioned her curiously, but Aghdam answered calmly and cooperatively. Unexpectedly they let her eleven hours later she shoots three employees at Youtube HQ and then shoots herself.

Hindi actor goes to jail for 5 years

By: Sumant Anantha

The famous Indian actor, Salman Khan was sent to imprisonment for 5 years for a Blackbuck poaching case. He was accused of killing two Blackbucks, an endangered species. Four other actors were accused in this case but were later acquitted. They are Saif Ali Khan, Neelam, Sonali Bendre and Tabu. Salman Khan was sentenced by the Jodhpur Chief Judicial Magistrate Court today. He was charged before for keeping unlicensed weapons and also charged for using them. The biggest conviction was Khan shooting animals of an endangered species which violates the law.

March Madness

By: Harvik

Recently the NCAA March Madness basketball tournament came to an end. March Madness is a single elimination tournament that is held every spring in the USA. 68 Colleges all over the country compete to rise above all and take home the championship title. The competition came down to the wire as Loyola IL, Michigan State, Kansas State, and Villanova battled in the final four. Michigan beat Loyola IL, 69 - 57, and advanced to the Finals. Villanova came out on top against Kansas with an astounding 95 - 79 victory. The finals were intense as both Villanova and Michigan dueled it out. With a hard fought game from Michigan, Villanova emerged victorious and took home the championship. Villanova's coach, Jay Wright, said in an interview, "With me, one of the keys to winning national championships is not trying to win national championships. It is very humbling that we've been able to do this, and as long as we keep our mind on the fact that our goal is never to win the national championship, our goal is to be the best team we can be by the end of the year." For more information about March Madness or NCAA, visit :

<https://www.ncaa.com/march-madness>

Charity of the Month

Childhelp

By: Amuktha Dasari

April is National Child Abuse Prevention Month. In 2018, April 4th is being celebrated as a Childhelp National Day of Hope. Everyone across the country is asked to make a life-long commitment to joining the fight to end child abuse and neglect. Childhelp National Day of Hope was designated by a Congressional resolution in 2000. Childhelp was founded by

Yvonne Feddersen and Sara O'Meara, who worked to bring this day and the victims it honors to light. To observe this holiday, light a 5 wick candle, and observe a 5-minute silence, to represent the estimated 5 children who die every day as a result of abuse in the United States. Fight to end child abuse, and use #ChildhelpNationalDayOfHope to post on social media. You can find more information about Childhelp at www.childhelp.org.

Industry 4.0

By: Harvik

First came steam engines that helped the work our ancestors did. Next was electricity, the assembly line and the third era of industry came about with computers and robots and machines that began to replace human workers on those assembly lines. Now we are entering the fourth era of industry known as Industry 4.0. This industry is transforming jobs, economies and even our society. Under the vast title "Industry 4.0" some examples are , analytical intelligence, artificial intelligence, Cognitive technology, and the Internet Of Things. These elements will combine to create digital enterprises and stronger digital connections throughout the world. These enterprises can communicate and use data to incorporate that in our physical lives.

" So how prepared are organizations and leaders to embrace this revolution? " , asked **Deloitte Insights**. They went around and asked business and corporation's leaders, "How ready are the leaders of businesses and government agencies to harness the full potential of Industry 4.0 to benefit their clients, their people, their organization, their communities, and society more broadly?". Their results show that only 14% of their respondents are highly confident that their organizations can and will harness the changes that Industry 4.0 is bringing. In addition to that, more than 87% of Corporate Officers believe that Industry 4.0 will lead to more equality and stability throughout the corporations. Deloitte Insights' data showed that leaders and government agencies are using Industry 4.0 to make existing operations more efficient and cost-effective.

All revolutions are disruptive, and so is Industry 4.0. It possess many risks, such as higher hacking levels, more cyberthreats and much more. On the other hand, Industry 4.0 offers tremendous opportunity for products and services, better way to serve customers . Just as past Industrial Revolutions , the impact of Industry 4.0 has the potential to change industries,business, and how we live.

April Fools

By: Shrihan Dadi

April Fools' Day is an annual celebration in some European and Western countries commemorated on April 1 by playing practical jokes and spreading hoaxes. The jokes and their victims are called April fools. Although popular since the 19th century, the day is not a public holiday in any country. There are some possible origins of how April Fools came to be about.

Geoffrey Chaucer's *The Canterbury Tales* (1392) may contain the first recorded association between April 1 and foolishness, although this claim is controversial. In Chaucer's tale, the vain cock Chauntecleer is tricked by a fox. However, it is not clear that Chaucer was referencing April 1. Modern scholars believe that there is a copying error in the extant manuscripts and that Chaucer actually wrote, *Syn March was gon*. If so, the passage would have originally meant 32 days after March, i.e. 2 May, the anniversary of the engagement of King Richard II of England to Anne of Bohemia, which took place in 1381.

In 1508, French poet Eloy d'Amerval referred to a *poisson d'avril* (April fool, literally "Fish of April"), a possible reference to the holiday. In 1539, Flemish poet Eduard de Dene wrote of a nobleman who sent his servants on foolish errands on April 1. In 1686, John Aubrey referred to the holiday as "Fool's holy day", the first British reference. On April 1, 1698, several people were tricked into going to the Tower of London to "see the Lions washed". In the Middle Ages, New Year's Day was celebrated on March 25 in most European towns. In some areas of France, New Year's was a week-long holiday ending on April 1. Some writers suggest that April Fools' originated because those who celebrated on January 1 made fun of those who celebrated on other dates. The use of January 1 as New Year's Day was common in France by the mid-16th century, and this date was adopted officially in 1564 by the Edict of Roussillon.

In the Netherlands, the origin of April Fools' Day is often attributed to the Dutch victory at Brielle in 1572, where the Spanish Duke Álvarez de Toledo was defeated. "Op 1 april verloor Alva zijn bril." is a Dutch proverb, which can be translated to: "On the first of April, Alva lost his glasses." In this case, the glasses ("bril" in Dutch) serve as a metaphor for Brielle. This theory, however, provides no explanation for the international celebration of April Fools' Day. Although no Biblical scholar or historian are known to have mentioned a relationship, some have expressed the belief that the origins of April Fool's Day may go back to the Genesis flood narrative. In a 1908 edition of the *Harper's Weekly* cartoonist Bertha R. McDonald wrote: "authorities gravely back with it to the time of Noah and the ark. The London *Public Advertiser* of March 13, 1769, printed: 'The mistake of Noah sending the dove out of the ark before the water had abated, on the first day of April, and to perpetuate the memory of this deliverance it was thought proper, whoever forgot so remarkable a circumstance, to punish them by sending them upon some sleeveless errand similar to that ineffectual message upon which the bird was sent by the patriarch.'"

Different countries celebrate different types of customs for April Fool's. In the UK, an April Fool joke is revealed by shouting "April fool!" at the recipient, who becomes the "April fool". A study in the 1950s, by folklorists Iona and Peter Opie, found that in the UK, and in countries whose traditions derived from the UK, the joking ceased at midday. A

person playing a joke after midday is the "April fool" themselves. In Ireland, it was traditional to entrust the victim with an "important letter" to be given to a named person. That person would then ask the victim to take it to someone else, and so on. The letter when finally opened contained the words "send the fool further". In Poland, many jokes are told; various hoaxes are prepared by people, media (which sometimes cooperate to make the "information" more credible) and even public institutions. Serious activities are usually avoided. In India, there have been numerous references to April Fools' Day in both cinema and popular literature and people are jovially associated with the day. However, this is not any intrinsic part of India's ancient culture.

As well as people playing pranks on one another on April Fools' Day, elaborate practical jokes have appeared on radio and TV stations, newspapers, websites, and have been performed by large corporations. In one famous prank from 1957, the BBC broadcast a film in their *Panorama* current affairs series purporting to show Swiss farmers picking freshly-grown spaghetti, in what they called the Swiss Spaghetti Harvest. The BBC were later flooded with requests to purchase a spaghetti plant, forcing them to declare the film a hoax on the news the next day. On April Fools' Day 2016, online football news channel Goal.com falsely reported that FC Barcelona winger Lionel Messi agreed to a €500 million deal to sign with Real Madrid for five years. The reporter's name used in the article was "Lirpa Loof", which is "April Fool" with each word spelled backward. With the advent of the Internet and readily available global news services, April Fools' pranks can catch and embarrass a wider audience than ever before.

Facebook Data Breach

By: Pranay Koneru

By now we've all probably heard of the most recent attack on Facebook's user data. The latest breach was unearthed to the public in early March when it was discovered that the data of millions of Facebook users had been accessed by a British firm known as Cambridge Analytica. The firm's main ventures are in the field of political data and because of this, they were hired by the President Trump's 2016 election campaign. According to the New York Times, Cambridge Analytica gained access to private information on more than 50 million users and they provided Trump's campaign with tools that could influence the behaviors of American voters by identifying their personalities. The breach allowed the company to view details on users' friend networks, likes, and even identities. The most upsetting part of this breach though is the fact that Cambridge Analytica didn't have to hack Facebook in order to access the data. It was given to them by Facebook without the permission of their users. This has many users questioning what else Facebook might be doing with their data. This isn't even the first time that Facebook has been in hot water due to a data breach. Back in 2011, they were made to sign a Consent Agreement by the FTC which had them agreeing to safeguard the data of their users. If they are found to have broken the agreement Facebook could be facing hundreds of millions of dollars in fines from the FTC. Due to their misuse of user data Facebook's market value has dropped over 100 billion dollars and it is no longer among the top five most valuable companies in the world. Even though the effect of the breach are

negative. it does teach us all a very valuable lesson: be careful what information you put online. The internet is a very dangerous place and your information may just be stolen by someone with the intent to cause harm.

Submissions

V-Care

By: Vibhu Subramani

In the past year, a non-profit organization called V-Care has influenced the RTP area in several ways. The organization consists of 7 hard-working members who take time out of their busy schedules to support the V-Care initiative. V-Care is a project focused around raising awareness in and around their town about the dangers of pouring waste cooking oil in the kitchen sink and how we can recycle the oil and help protect the environment we live in. The V-Care non-profit can turn the waste cooking oil into biodiesel and eliminate some CO₂ from our atmosphere. Biodiesel is a renewable, clean-burning diesel replacement. Recycling cooking oil and other fats would eliminate blockages in our sewer system. According to Town of Cary, in 2014, there was 6 sewer overflows in the Town in which oil and grease was a main contributor to the blockage. In their research, they also found out that most families actually pour the waste cooking oil in a Ziplock bag, seal it and trash it. By recycling cooking oils and grease, citizens can help reduce landfill disposal as well. Their project has a dual-purpose: In addition to raising awareness, they also collect waste cooking oil from households and restaurants and supply to local biodiesel companies and raise funds for Autism Society of North Carolina (ASNC).

They now have a website (www.v-care.us) and have contributed in many ways. Over the past year, they have attended over 10 formal events and distributed hundreds of flyers. V-Care has donated over \$5,200 to ASNC (<https://www.autismsociety-nc.org/raleigh-student-gives-time-to-help-others>) and has outreached to Anuraag Foundation in India. Their impact in the triangle has been recognized by the Autism Society of North Carolina, Town of Cary, and the Town of Morrisville. V-Care is an initiative to help kids on the spectrum while also protecting the environment.

Virtual Reality: How It Works

By: Abhiram Dasari

Virtual reality is, arguably, the next "big thing". A plethora of people across the world are using virtual reality through different technologies, including mobile, headset, and desktop VR. But how does this technology work? How is a simple headset able to emulate the experience of a second world inside of every software? These questions, and more, will be answered in this article.

Virtual reality headsets work by projecting two different images at different angles. Try closing one eye and then the other to make objects "dance" from side to side, and you can kind of understand how this works. Some headsets have two different images on the

same monitor, but some headsets have two different monitors where the images for each eye are displayed. Some headsets have infrared sensors to track movement of the hands and head, reminiscing the Wiimote. In fact, some VR sets use a different controller, the controller for the Xbox One, and even come with attachable gadgets that turn it into "gloves" for your hands, with different joysticks and buttons representing movement of your hand. Movement around the room is tracked with up to three or four sensors placed around the room. These sensors, called the SteamVR sensors, can deliver up to 225 sq ft of playable area with only two sensors.

But there is still one piece missing: eye movement. When you move your eyes inside the VR headset, without moving your head, tracking them is a big problem. Right now, the forerunners of VR, like Oculus, HTC, and Steam are developing infrared sensors inside of the headset to track where your eye is looking and change the image on the screen based on how your eye looks to the sensor. Recently, there was also an outside group that did a modification to the HTC Vive, called Tobii, that was able to make an avatar on the screen look side to side, raise their eyebrows, and blink/wink exactly when the person wearing the headset did.

In conclusion, VR is definitely a step forward from traditional gaming. However, with this new technology comes new problems like eye tracking, movement tracking, and controllers. But when these obstacles are inevitably surpassed, and new technology becomes the norm, the world of virtual reality will be truly open to use.

Crawford Leavoy Interview

GENERAL

1. It would be inspirational to know about you as a person. What would you like to share with us about your life story?

"I've never thought of my life as really inspirational. I was born in Louisiana and then I grew up in the state of Alabama. So when I decided to go to university, I went back to Louisiana and eventually I moved to North Carolina. One of the things that has always had a place in my life is some sort of involvement in Competitive Speech and Debate. I joined Debate because someone asked me to do it and I just wanted to fit in with the rest of the students. It ended up impacting my life. I've always wanted to give back to the community so I went on to be a Debate coach."

2. Everyone has a few people that they are influenced by and motivated by. Do share with us who were your motivators and mentors?

"I probably have two or three huge mentors in my life. One is a friend of mine who works down in New Orleans. I met him years ago and his name is Greg Malis. For me, a mentor is

someone whose actions mirror yours. He would tell me what he has done in the past and what he would do in a certain instance."

3. Could you share some of your experiences of going through a tough phase and how you dealt with it and more importantly what would you suggest to our audience when they are down and under?

"I spent a significant of time in my early adulthood having no direction in life. It was a depressing and dark phase for me where I wasn't really happy. I found that now, when I feel like I am in that space again, I step back and evaluate what is going on in my life that is making me feel that way."

DEBATE

1. How would you describe Speech and Debate program to a person that is not familiar with it?

"The best way to describe debate is like track and field. It's like grouping with events of people fighting over debate."

2. What are the required skills and commitment needed for a person to be successful in Speech and Debate competitions?

"The desire and willingness of a student. The student would have talent to have fun and use speech and debate."

3. Many friends and our audience have asked about how they can engage in Speech and debate. Some of the schools may not have a program. In your opinion what should be their approach / plan?

"There are number of different structure programs for schools to make. The tournaments allow them to compete."

4. How does participating in Speech and Debate help participants in becoming a holistic human and contributor to society?

"Students would become better writers, they know how to get to the point. They can speak louder and show advanced improvement."

5. What was the path that led you to be a Speech and Debate Coach and Director of the program at Durham Academy?

"Did not know anyone in the area when I moved here, I asked mentor to stay involved. I worked as an assistant until boss moved and I volunteered to take the role."

6. Coaching and leading a high performing debate team is difficult. Give us some insight on how to create, coach and lead high performing teams?

"Tried to take in individual work with each student."

7. Considering the rigor, at times students might feel stressed and not motivated, how do you encourage your students to be motivated and follow thru to achieve success?

"By teaching students balance. Students need to take a break and do other work. Help someone learn balance."

8. If your team loses a competition, how do you guide them to cope with that and improve from it? This insight is very valuable as folks at some point of life experience failure?

"Historically kids learn more from losing than from winning. My job is to remind them that difficulty is an easy way to succeed."

9. It would be insightful to know how you and your team feel about winning a competition. If you had a chance to pick one competition that you / your team has to win, what would that be and why?

"The District Tournament is the one to feel hard to win for. They try to focus to win the tournament."

LESSONS LEARNED

1. You teach and mentor many youngsters in many ways. You might have learned a few things in the process. Give us some insight into what you have learnt in this process?

"Very little is a life and death situation. It is about sometimes taking a breath and enjoying the moment. The number one thing my students have taught me is to always have fun. I like to goof off a lot and be a jokester. However, the most important thing that matters is trust between me and my students."

2. Being a debate coach and Director of the program is more than a full-time role, in fact it might be a way of life for you. How does this bring satisfaction and achievement to you?

"It is about watching students grow up over the years. Students who used to be in my program who are now in college like to call me for advice which really brings happiness to me. Having a part in helping a student grow up brings both satisfaction and achievement."

3. You do a lot as a full-time Coach, Program Director, Mentor, Speaker etc to several individuals. You might be taking time for yourself, how do you do it and what is your suggestion on how to handle multiple engagements?

"I am a hobby marathoner. I like to run ridiculous long races and travel. Most of it is about knowing when you have pull back and take a breath from what you are doing (i.e. debate is doing well, focus on physical health, etc.)"

4. How would you describe yourself in one word or one sentence?

"I would say that I am motivational. I am someone who is extremely goofy but committed to the growth of students in any aspect of their life."