SCVi Leader

WELCOME 2020

Celebrate the New Year with the First Issue of the SCVi School Newspaper!

Statement of Principles

Hello, and welcome to the SCVi Leader newspaper. This newspaper will be a vital and interactive part of the learning experience here at SCVi. The goal of the paper is to inform and unite learners of all grade levels, and this is not just limited to readers. Staff will also receive the same inspiration, and will also feel a sense of pride and unity about their creations in the paper. We will be covering important events that not only relate to SCVi, but to the outside world in general.

Our articles are created to inspire learners and prepare them for the future. We will cover topics such as: Entertainment, World Events, School Events, and more! All articles are written with learners in mind, and subjects such as World Events will be focused and based on how they affect the lives and futures of learners.

That said, I hope you enjoy this and every other issue of the SCVi Leader!

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Wave of the Future: The World Mobile Congress

By Hugo Turner

The World Mobile Congress (WMC) is an international tech convention, where visitors can see amazing new advancements in the world of technology. It occurs in Los Angeles, USA, and Barcelona, Spain. Recently, I visited and was given a press tour of the Los Angeles WMC as, here's what I found!

Innovation City

Innovation City was an exhibit in the convention's South Hall, which featured ways that new technology and 5G can be used to improve living conditions, fuel emissions, climate control, and energy/water efficiency in large cities like L.A.. Lots of companies contributed to the exhibit and showed many useful contraptions. Some examples of these devices are: Smart Lighting, Autonomous Stores, Autonomous Heating and Predictive Analytics. Smart Lighting systems would be street lights that save energy by only turning on when there is traffic near or on the street. They would have sensors that detect vehicle and foot traffic, so they can be of use but not waste energy by being on when not needed! Another great

device is the smart watering system, a device built with sensors detecting soil/plant moisture and water the plant accordingly. This is very useful for areas with less rainfall or droughts (like L.A.). Automation also played a large part in the Convention. Multiple examples of automation were shown, such as Serve, an automated delivery drone/robot. Serve is a small, yellow cart with a GPS that allows

it to find its way to any destination, be it a restaurant, a supermarket, or your home! It has a hatch on the top which opens up to reveal a compartment for food storage! Automated factories are another example of automation in the workplace. Imagine if instead of people working on an assembly line, the work could be done by robotic tools. These tools would have limited AI and would be overseen remotely by technicians. Automation could be used to make tedious work less expensive and more efficient, but it would also have a pretty drastic effect on society (see the section called Impact for more on this!)

Predictive Analytics

Now that I've shown you some small scale examples, It's time to introduce you to the biggest development I was introduced to at the convention. Predictive Analytics is a system that will be used to predict catastrophes, such as fires, diseases, nuclear meltdowns, exacerbations of the Climate Crisis, and large scale natural disasters before they happen. It utilizes millions of sensors, all with 5G connectivity, to monitor the air quality, climate increases or decreases, and other important phenomena of the area. The sensor then feeds the information into the cloud where it is analyzed by a supercomputer and then sent to response stations in a constant stream of information. The UN has backed this project because of its usefulness in environmental protection and disease control and prevention.

5G

At the convention, there were multiple network companies competing with each other. Since all of the devices mentioned previously are set up to work on 5G networks, the companies were all dutifully promoting their 5G products. Most of the companies there were popular phone providers, such as Verizon and Sprint. Other companies, such as Ericsson, were a little less known here in the U.S.. The devices do not currently run on 5G, because it's not in common use yet. But, as Andrew Barker of GSMA explained to the SCVi Leader: "Right now, these technologies are forced to run on the existing networks. But the existing networks are rolling in to the 5G future, and the 5G future is about flexibility, not just speed and responsiveness. There will be a whole series of different technologies arriving during the 5G era, so some of the technology we are showing here will just roll into that time and be compatible with each other!"

Impact

The technology shown at the conference was incredible, and if pursued consistently, will leave a lasting impact and shape the future of society, for better or for worse. There are two sides to the impact these developments will have and each should be equally explored. On one side the implementation of technologies such as Predictive Analytics can benefit humanity and the environment, by closely monitoring and reporting on things like diseases and natural disasters before they happen. It can also help the environment by tracking pollutant(s), allowing environmental teams to act accordingly. Also, the other environmentally focused devices, like the Smart Watering System can also have positive environmental impact. Automation in general could create more work equality. If jobs like the delivery man and factory worker can be automated by machines demonstrating consistent results, society would be forced to adapt to a better and more equality driven future. On the other hand, 5G can be radioactive, and some people who have medical conditions such as electromagnetic sensitivity, can have bad reactions to 5G, or LTE in general. And with things like Predictive Analytics, 5G towers and sensors that run on 5G signals would be needed everywhere, making the possible radiation emitted impossible to escape! Aside from medical worries, a data-based society could be taken advantage of, especially if the data is only held by a certain group of people. Data could be used to track what people look up or see on the internet, allowing political parties and businesses to manipulate users. But don't let any of these theories, good or bad, affect your perception of these new technological developments. Be free to use the speculation in this article to build your own opinions on these new technologies.

The "5G future" is just around the corner and it is planned that these technologies will be implemented in cities and towns all over the globe. And though the technological developments mentioned here are pretty neat, there will undoubtedly be more to come in the future. The world has changed so drastically, and though it seems normal to most kids today, cell phones and computers were once unrealistic fantasies. Progress is an ever continuing cycle, and whatever impact 5G and the developments it brings with it will have only time will tell!

Space, Planes, and Memes

By: Joe M.

The 737. This is Boeing's most popular plane. If you don't know what Boeing is, it doesn't matter. You've probably been on one before going on vacation. I mean, they've been around since 1962. But, as with every great thing, there comes a downside. A few weeks ago, wing cracks were found in several hundred planes sold to airlines. Now, I don't mean that one of the most popular planes on the planet is grounded. I mean a problem is emerging needing to be totally fixed before it gets out of

hand. For those who don't know (most people reading this) the place where the crack formed is the "Pickle Root". This device connects the wing to the main body. For those who fancy living, this ain't a good sign. Luckily, Boeing has plenty of tricks up its sleeve and is trying to fix the problem. For the time being, Boeing's competitor Airbus takes the lead in the market with the A320 model. One of the leaders of the Glider Project, Mr. L - says: "The 737 isn't really my scene, but I can say that the groundings are a big issue. I mean, it's one of the most popular planes on the planet. At least someone's going to be affected."

Chlöe Charlotte Swarbrick, a Newslandian Politician, has been blowing up on social media. For those who have social media , the phrase 'Ok, boomer' was used to silence a heckler at a climate change conference in Auckland, NZ. A boomer, meaning an older person born during the "Baby Boom", which lasted from 1946-1964, is used as a way of presenting the cliche of older people, hating modern technology and society, especially its effect on kids. It only started because of younger people wanting elders to take action on problems that affect younger people. Mr. Johnson doesn't favor this phrase, saying: "It's about the belief that the younger generations are responsible for today's problems, when in reality, those problems belong to everyone. But, this also means that you can't dismiss everything that one generation says."

Mars, The 'Big Red Planet'. We all know about this fabled planet, slightly similar to Earth but uninhabitable at the moment. It's the one planet in the solar system we have our sights set on for colonization. Recently, traces of Methane were found on Mars, but now Oxygen shows up as well! Mr L., one of the leaders of the 8th grade Mars Project, says: "I mean, back then we thought it would be cool if we could go there, but the technology wasn't good enough and Mars didn't feature inhabitable phenomena. But now, the discovery of Oxygen opens up so many possibilities."

Riordan Vs. Rowling

By Noah Breitstein and Hugo Turner

Rick Riordan is slowly becoming more popular. He has written 8 separate book series totaling 37 books. Notable series Rick Riordan has written are: Percy Jackson & the Olympians, Heroes of Olympus, Magnus Chase and the Gods of Asgard, and The Trials of Apollo. All of Riordan's books deal with mythological and spiritual backgrounds that stem from ancient cultures such as ancient Greek and Norse mythology. While all of Riordan's work has been well received by audiences and have been met with vast success, there has been debate if the more recently successful author is or is not better than J.K. Rowling.

Rowling wrote the first Harry Potter novel, Harry Potter and the Philosopher's Stone, in 1997, and wrote six sequels soon after. All seven Potter novels were a phenomenal success for Rowling, and were praised for their wit, humour, and story. Rowling later added multiple additional novels to the Harry Potter canon, such as Fantastic Beasts and Where to Find Them, resulting in fourteen total novels.

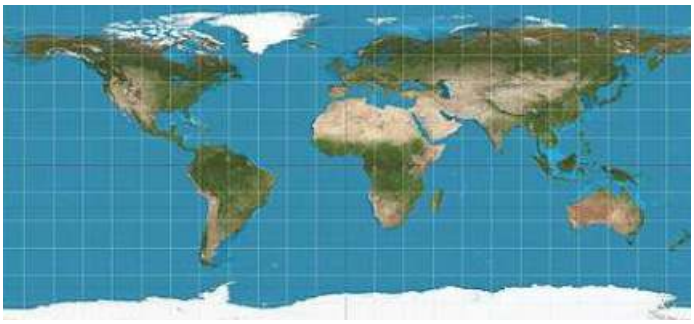
Both Riordan and Rowling have made incredible amounts of money off of their work, and have gained extreme popularity. Rowling, having been around longer seems to have an iron grasp on popular culture, dominating children's literature since the release of her first book all the way back in '97. Riordan, though having more books for fans to consume, does not seem to challenge Rowling's ever-present grip on the minds of young people. This does not mean one is better than the other. Both write about similar subjects and use the ever popular "Hero's Journey" plot setup to their own aim, making both equally entertaining. But what are your thoughts? Who do you think would win in this comparison, the Boy who Lived or the Son of Poseidon?

Maps Gone Wrong

By Noah Breitstein

Many people enjoy using maps. Map 1 (below) are the most common but they are not necessarily correct. Map 2, is a sphere, cut down so we can see it better. If you cut it out, it can be folded into a sphere, similar to what peeling an orange looks like. The reason behind this; to demonstrate scale. The world is round (not a perfect circle) not rectangular, Map 1 therefore stretches to the north and south poles. When you flatten an orange it can look like map 2 when you look at it. There are many different types of these new maps, and some of them have been formatted to be easier for the eye to read. Or at least most of them have...

1



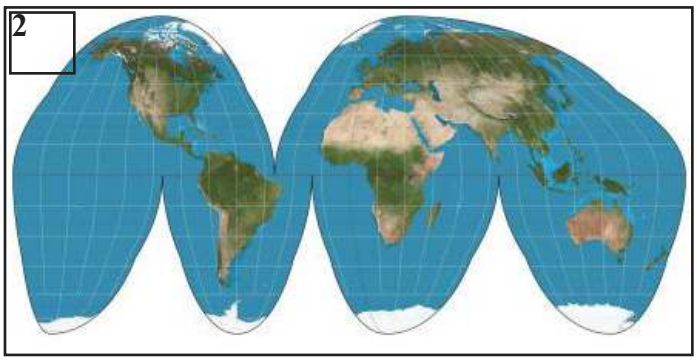


Photo Essay: The SCVi Multicultural Feast

Photos by: Fintan Harwood and David Blumenkrantz

The SCVi Multicultural feast is an annual event taking place on November 22, and is used to celebrate food and culture from a diverse range of countries. YUM!!! People say a picture is worth a thousand words. In this case, I believe them!

The SCVi Charter Renewal: What it really means

By Nicholas Johnny

Have you ever wondered how Charter Schools work? Charter schools are not municipally owned. they are started by people who want to create a school, but do not want to be bound to the rules and strict oversight of the government. They still need the government's O.K., so to speak. The school has to then write a charter, which is renewed by the government every five years. SCVi, being a Charter School, just went through this process, but how does it work? Why is it important. After thorough exploration of the subject we are going to explain exactly what happened during SCVi's 2019 charter renewal, and you'll learn of its significance to our school.

First, I feel we should make this clear. If the charter was declined or unsuccessful, dozens, if not, hundreds of jobs would have been lost, and all of the students here would've needed a new school. Are you aware of the events that took place at iLead Encino? LAUSD (the Los Angeles Unified School District) declined Encino's Charter, which forced the iLead Schools in the area to shut down. This could have happened to us. Essentially, every five years, every international Charter School is required to meet with the closest chartering district, and the school has to give the district information about the progress of the Charter School, so the judge can make a decision. The judge, after this is done, decides whether or not the school would stay renewed for five more years, or be lost within the following year.

People of the SCVI Charter school, workers, parents and children all watched the event take place. If you were there, you did not miss much. All that was essentially took place, was a stressful time for those that worried for our school. We thank you, if you did participate in the event, for attending the renewal. This, then, provided us all better and secure thoughts for our renewal. We thank you for your services.

Black Holes: Cosmic Vacuum Cleaners

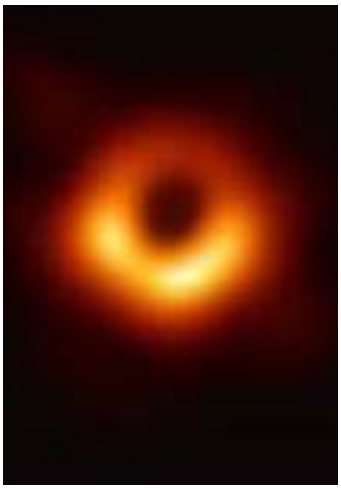
With the Dream Up project and a new eighth grade Mars project arriving, you may have been thinking about space lately. Have you ever wondered what a black hole looks like? Well to answer that question, NASA ran a simulation with their powerful supercomputers to give the most accurate idea of how one would actually appear as possible. This stunning simulation was made to test Einstein's theories of gravity, and it shows how the light you see from a black hole would bend to its intense g-force. Bending light like this would take billions of times the gravity of Earth!

There are many different aspects to point out when talking about the appearance of a black hole. One of the first things you'll notice is the black circle in the center- hence the name, black hole. This is actually the event horizon, the point of no return. At the event horizon, there becomes so much gravity that no light can escape, leaving only blackness. If no light can escape, then there's no light to see.

The next thing you may notice is the glowing orange disk around the black hole. This is called an accretion disk. It's basically a ring of heated gas that spins around a black hole, getting closer to the event horizon. You might be wondering, "Why is some of this gas on the top and bottom of the black hole? Isn't it supposed to be a flat ring?" Well those orange humps at the top and bottom of the black hole aren't actually there. The black hole is bending the light from behind and making it appear as if the gas were going over and under the black hole. You could think of it as an optical illusion. Another thing to take note of is how, in this simulation, the left side of the accretion disk appears brighter than the right side. That's because, as the gas is spinning around, it's moving at such a great velocity that when it circles back towards us on the left, "the effects of Einstein's relativity give it a boost in brightness," Francis Reddy from NASA says.

Although this is a simulation, we do actually have real evidence to prove it. On April 10th 2019, the Event Horizon Telescope released the first closeup picture of a

real black hole in the galaxy, M87. Although the image is a bit blurry, you can see the orange gas around the black hole and the event horizon in the center. This proves that NASA definitely had the right idea of what a black hole looked like.



EHT was able to do this by observing this black hole on the ground from strategic points around the world to simulate a planet-sized telescope, the kind you would need to get a picture of something so far away. They then collect this data from around the world, and use these different viewpoints to create a clearer image.

We have made a big step towards understanding black holes with this simulation and a first image. We can still only theorize what could happen beyond the event horizon, but we have proven their light-bending appearance, and that's good progress. The teams at NASA and EHT have done great research into this, and we will only begin to discover more in the future.

Wisdome L.A.: The Art of Projection

By Hugo Turner

Wisdome L.A. is a multisensory semi-virtual art exhibition space that uses large geodesic domes which video can be projected on. This is used for virtual theming and environments for art exhibits! The company, called

Wisdome, has created many multi-layered video clips, which are composited in real time by a live "Video DJ" of sorts! There were two events at Wisdome L.A. that I went to: Santa's North Pole Village and Purple Haze: The Music of Jimi Hendrix, and though both were equally awesome, they were different in many ways!

Since the Holiday season recently was upon us, I'll start with the Christmas one! Santa's North Pole Village was an interactive walkthrough, which featured animatronics, props, ice skating (sort of), and, of course, 3D projected environments! The attraction started out with a mirror maze, with blue and purple spotlights creating a dramatic ambience. After the mirror maze, there was a small lounge area, which was filled with an assortment of 2D reindeer and elf cutouts. In the center was a photo area. Where guests could sit on a chair used in the 2000 How The Grinch Stole Christmas live action movie! After that, we finally came to the village section, which had a display of house facades and was populated by

animatronics of elves reindeer and the jolly fat man himself!

Though Jimi Hendrix died long ago, he is far from forgotten. Purple Haze: The Music of Jimi Hendrix was a concert starring the Hendrix impersonator, Randy Hansen, and featured dancers, music, and trippy multi layered projections. The projections were edited in real time to the music played onstage, and was incredibly effective in conveying the mood necessary to the vent. As a bonus, Hendrix's brother, Leon, attended the event and sang. I actually got to take a picture with him, which was incredibly fulfilling!

Overall, Wisdome L.A. is a great place to experience art. The domes house immersive environments and galleries, which are furthered by the layered projections used. I highly recommend giving Wisdome a visit!


Happy Holidays!


Happy New Year
From the SCVi Leader


2020


Test today!
I should have studied...
Anxiety
Did someone not study
Anxiety
I don't know.
Brain
why didn't you study!?
Anxiety