

**SAVE THE
DATE FOR
EXPO:
MARCH
28TH 2020!**

ENGINEERING EXPO

VOLUME 2
ISSUE 4

MAR 2020

Sign up for SWE NEXT!

Any student can become
a SWENEXTER!

(Those younger than 13 will
need a parent as the pri-
mary contact.)

SWE Next:

- Empowers females under 18 to prepare for careers in engineering and technology .
- Provides programming to help girls under the age of 18 to develop leadership skills and self-confidence.
- Helps girls connect with other like-minded girls and women engineers in the community.
- Provides scholarships for girls pursuing STEM .

USE code ICTSWE and
Sign up here: [Click Here](#)

Grow your own Easter Basket

Materials needed:

- Potting soil
- Easter basket for each participant
- Plastic plant saucer
- Quick grass seed
- Water

Find a plastic plant saucer that fits your baskets—you may want to bring your basket to the gardening/department store to select a compatible size.

If you plan on using your baskets for Easter it is best to start your basket growing about 2 weeks before the holiday.

Directions:

Put the plastic saucer in the bottom of the basket for each participant.

Fill the plastic saucer with potting soil and pat it down so that the soil is even .

Pour grass seed over the entire surface of the dirt.

Then push the seed down into the dirt about half an inch down with your fingers.

It is ok if you can still see some grass seed

on top of the soil.

Water the grass every day—just enough to make the soil damp.

On day 4 the grass should start poking up through the dirt.

By day 6 the grass should be light green and thick.

By day 12 the grass should be long and thick and

ready to

be an

Easter

basket.

If the

grass gets

too long,

you can

cut it

down with

some scis-

sors.



How Do Sponsors Help Expo ?

Expo has been very fortunate! The first thing that Expo has to pay for is the “venue”, which is a fancy term for the location that Expo will be at. Another big purchase for Expo is all the supplies for Expo activities. Some expensive booths last year were the drones, lava lamps, temporary tattoos, and button maker. We also have to spend a little money for the bags, t shirts, flyers, and maps that everyone receives when they walk in the doors. We have noticed that people and families have a really good time at Expo, and when there are good signs and maps for booths— it really helps them have a good experience.

Some other ways that sponsorship helps is for publicity. The team at Expo is really passionate about making sure all kids have an opportunity to experience STEM in a fun way. Therefore we spend a little money making sure that local TV, radio, and billboards will advertise for the event so your mom, dad, guardian, or friend will hear about it and want to come! Social media has also been really helpful and we use the social media sites that are linked on the last page to help everyone know about the event!

Q&A with ICT's Famous Engineer, Singer, and Entrepreneur: Roy Moyer III



"Please remember that The STEM Community needs YOU! Your ideas matter, your creativity matters, and Yes you are good enough! Go for your STEM Dreams!!! You have a supporter in me!"

-Roy Moyer III

Expo Newsletter had the opportunity to interview [Roy Moyer II](#) who is an awesome Aerospace Engineer and Singer!

Q. Roy, tell us a little about yourself?

A: My name is Roy Moyer III and I was born in Kaiserslautern Germany but did most of my growing up in Raytown Missouri. I am an aerospace engineer by day and an Independent Gospel Singer by night/weekend. I earned my Bachelor's Degree in Aerospace Engineering at WSU. While in college, I took advantage of singing National Anthems for multiple Shocker sporting events. Currently, I work at Spirit Aerosystems as a Structural Design Engineer where I design airplane parts for the Boeing 777 aircraft family. Earlier this year the brand-new Boeing 777X had its first flight and I'm proud to say that some of the parts I designed were on that airplane.

When I'm not at work I love to fill my free time with singing. I lead praise and worship at Heart of Christ Church and tour on the weekends throughout the region singing my original songs. I also like working out, running, going to sporting events, and attending concerts. Feel free to learn more about me and listen to my music at the links: Instagram: [@royt3](#) YouTube [Website](#)

Q. What is some advice you would give to a young person who wants to do what you do?

A: What I would tell any young person who is interested in STEM is to keep exploring and learning. I recommend them to use Google and YouTube to search everything and anything in the STEM Universe. I would also encourage them

to ask a lot of questions and to keep in their mind that there is no limit to what they can discover. In regards to a career in Aerospace Engineering, I would recommend them to learn as much as they can about airplanes, flight, rockets, drones, and anything that takes to the sky. I would tell them to take all the math and science classes they can take and when things get difficult in those classes, (cause sometimes it will get difficult) I would encourage them to ASK FOR HELP! Lastly, I would tell them to check out the STEMusic Podcast so they can listen to how Multiple STEM Professionals made it to where they are now.

For more Q & A with Roy Moyer II and where to find more of his work visit the [Website!](#)

Rainbow Rain



This is a fun colorful activity for the young ones. You will need:

- A large clear vase or glass filled 2/3 of the way with cold water.
- Shaving cream
- Food coloring
- Little pipets or eye droppers

Step 1. Add a shaving cream cloud to the top of the water.

Step 2. Mix little bowls of water with different colors of food coloring. So, maybe you have, a red bowl of water, an orange bowl of water, a yellow, a green, a blue, a turquoise, a purple. Whatever colors you would like!

Step 3. Drop colors of food coloring water into the "cloud" with pipets or eye droppers and watch as the coloring falls through the cloud and into the water.

	2	1	4
	1		
		3	
2	3	4	

Can you solve the Sudoku puzzle on the left? If so, can you infer how to solve the puzzle on the right?

Sudoku 4x4: Each row can only have the digits of 1-4 once. Each Column can only have the digits 1-4 once. Lastly, each quadrant can only have the digits of 1-4 once.

	X	E	O
	E		
		P	
X	P	O	

Pinecone Bird Feeder

You will need:

- Twine
- Peanut butter
- Birdseed
- Pinecones

Spring is an excellent time to learn about nature and wildlife. As the weather warms up we should see more species of birds, animals, plants, and insects than the months previous. One way to get kids interested in looking out for birds is to

put up a bird feeder. Here you can create your own. Tie twine around each pinecone in a loop to act as a hanging device. Then help your kids put peanut butter in between the sections of the pine cones. Then sprinkle the birdseed over the peanut butter in the cone. Then take the cones outside and hang them up in a tree. Over the next few days have your kids watch out for what wildlife comes to

eat from the feeder. Maybe your kids want to be like spies by taking pictures of the birds and researching on the internet what species the birds are!



Family Fun STEM Activities

Bubbles at The Advanced Learning Library

Head over to The Advanced Learning Library and preview an Expo activity. March 7th 10:30 to 11:30 am.

[Click Here](#)

Engineering Expo

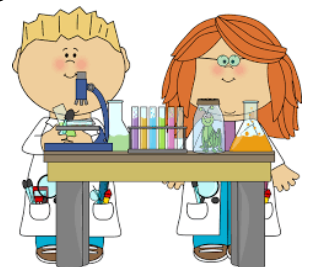
Presented by Spirit and Hosted by SWE. This is our 22nd annual event and we are so EXCITED for all the STEM hands on activities. March 28th, Century II 9am-3pm

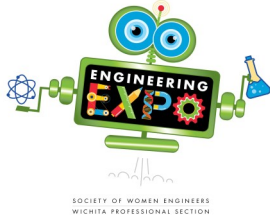
[Click Here](#)

Pull A Plane For Education

Pull a Plane on April 18th at the B-29 Doc Hangar, Eisenhower Airport. The unique event will feature teams racing to pull Doc 25 feet.

[Click Here](#)





We want to hear from you! Give us your thoughts on Expo or submit your favorite science podcast, youtube channel, Instagram, etc so we can follow it too! Send us an email at:

ExpoNewsletter@wichitaswe.org

2020 Vision

We have some exciting new things coming soon from the Engineering Expo team. Keep up with what is going on by visiting our website and following our social media.

www.wichitaengineeringexpo.org

Our Other Social Media to follow:
Follow the event on Facebook: [Here](#)
Follow SWE on Facebook at [Here](#)
Follow us on Instagram [Here](#)



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