# **Energy Education**news

Spring 2022

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#### SMUD

Community Education & Technology Center

smud.org/Education etcmail@smud.org 916-732-6738

# Help spread the word! Girl Scouts aims to reach Sacramento's under-resourced

communities

One of our Sustainable Community partners, Girl Scouts
Heart of Central California, plans to bring its proven
leadership program to girls that need help the most – those
attending Title I schools and living in historically disadvantaged neighborhoods in the
Sacramento area.

In 2021, the Girl Scout Advantage: Adopt-a-School program met bimonthly with Girl Scout troops in a virtual format – with in-person meetings and activities resumed when it was safe to do so. Girls in the program earned badges from the program's 4 pillars: Science, Technology, Engineering and Mathematics (STEM), outdoors, life skills and entrepreneurship. Special focus was given to STEM and closing the STEM gender gap. Girls enjoyed receiving uniforms, badges, goal-tracking memory books and supplies.

Girls who participated in the Girls Scouts program also learned about renewable energy and sustainability using a SMUD designed presentation and activity/coloring books and earned an exclusive SMUD patch for clean energy training. We're proud of the custom patch we designed with the Girl Scouts Heart of Central California.

The program was so effective that moving forward the Girl Scouts Heart of Central California have plans to continue by partnering with after school programs at select Title I schools in the region. This program is a great example of how the Girl Scouts help girls develop leadership abilities and technical skills that not only spark an invested interest in science and technology but also set them up for future success.

#### **Autonomous racing**

This year, we're launching an Autonomous Vehicle Racing (AVR) program, which gives middle and high school students from across our community an opportunity to take part in an autonomous racing competition.

The competition will take place on Saturday, May 28, 2022 (location to be determined). 12 schools from across Sacramento County will be competing in the program – including seven middle schools and five high schools. Each school



will have ten students on a team. These students will learn how to code and build a mini car, which will drive autonomously in various challenges on competition day. The program also includes six computer science mentors from CSUS, UC Davis and the University of the Pacific.

The competition aims for students to learn coding and engineering skills in order to create cutting edge, self-driving cars. It also helps them learn about SMUD's 2030 clean energy goals – which includes steps to convert homes, businesses and transportation from gas to electric power – and careers in the electric and autonomous vehicle industry. For more information, email Adrian.Williams@smud.org.

## Interested in space and coding?

Would you like to build a prototype satellite? Society of Women Engineers (Sections Boston, Cal Poly SLO, MIT, UMass Lowell, Georgia Tech, Cornell) and BWSI (MIT Beaver Works Summer Institute) are looking for high school students interested in learning to build a 1U CubeSat to complete an ocean science research mission.



Teams of five students will build and program a CubeSat that will detect colored plastic in the ocean from space! The great part is mentors and hardware kits are provided to the teams at no cost.

Here's more information about the team and the schedule:

- No more than five high school students and one adult coach per team.
- Multiple teams from a school can enter into the challenge.
- Team coaches filled out the team application prior to December 31, 2021.
- Teams were notified in early January if they were accepted into the challenge.
- Selected teams will take part in a self-paced online course through May 28, 2022.
- Mentors will be available for help and will host bi-weekly office hours.
- Selected teams will receive their hardware kit in early February.
- On Saturday, May 28, 2022, SWE & BWSI will host the virtual final competition. Teams will be required to submit videos before the final event and also make final presentations during the final event.

#### Join us for this free challenge!

For more information, please email **swe-bwsi@mit.edu** or visit **beaverworks.ll.mit.edu/CMS/bw/SWE\_BWSI\_Challenge**.





#### **Project WET**

Project WET (Water Education for Teachers) has activities to supplement your existing curriculum, such as "Thirsty Plants" and "Pass the Jug," plus some great ideas for you and your students to save a couple bucks around the house while reducing your personal footprints on California's water supply.

Visit Project WET's new All Things Drought page where you can find real-time reservoir levels, drought severity maps, special reports, a newsfeed of current developments and general background on droughts in California and the West, as well as answers to common drought questions and tips for how you can save water at home.





## **SMUD** celebrates annual Electricity Fair

Nearly 700 visitors attended SMUD's 9th annual Electricity Fair, which was held outdoors at the Historic Folsom Powerhouse State Park in September. Music played, children made solar art, visitors toured the grounds and all visitors learned about energy conservation and what we can do as individuals to make our community carbon-free by 2030. For the first time, visitors used the Discovery Agent app for a self-guided tour and scavenger hunt.

We're looking forward to celebrating the 10th anniversary of the Electricity Fair on September 10, 2022 from 9 a.m.-1 p.m.



## California Solar Regatta is back!

We're happy to announce the 2022 Solar Regatta will be held May
13 & 14 at Rancho Seco Recreational Area. It's exciting news after the
2020 and 2021 events were cancelled due to the COVID-19 pandemic.
Applications have already been accepted, 15 high schools and 11
colleges will be competing. If you're interested in attending this
competition with your students for a field trip, please email Suzette.Bienvenue@smud.org.



competition with your students for a field trip, please email **Suzette.blenvenue@smud.org**.

To kick things off, we held a workshop in November for teams to learn how to build or retrofit a solar boat. The workshop was presented by engineering professor Keith Mueller of San Francisco City College and the presentation was focused on getting the new teams acquainted with the tips and tricks to designing and building a boat. Flyers, videos and more information are available at **smud.org/Solar-Regatta**.







## Register for the 2022 Science Olympiad

Last year, 11 middle school and 31 high school teams competed in science, technology, engineering and math subjects at the Science Olympiad held virtually at Mira Loma High School.

Here are the 2021 winners:



#### Middle School - Division B:

1st place: Winston Churchill MS
2nd place: Sutter MS (Folsom)
3rd place: T.R. Smedberg MS
4th place: Elizabeth Pinkerton MS

5th place: Arden MS

#### High School - Division C:

1st place: Mira Loma HS
2nd place: Sheldon HS
3rd place: Davis Senior HS
4th place: Pleasant Grove HS
5th place: Cosumnes Oaks HS

For information on the 2022 Regional Science Olympiad event, contact James Hill at **jdhill@sanjuan.edu**. For information on rules and regulations, visit **soinc.org**.









I want to live in a Clean PowerCitys

In 2021, we launched a broad, multi-media campaign called Clean PowerCity<sup>SM</sup>. The objective was to promote our goal of eliminating carbon emissions in our power supply by 2030 and encourage our customers and community to join the charge.

Who better to promote our goal than the younger generation? We launched a video contest for middle and high school students to create a TikTok video about why they want to live in a Clean PowerCity.

The top three entries from both high school and middle school categories were awarded cash scholarships. All entries received Join the Charge stickers and Join the Charge t-shirts.

This was the first time SMUD used TikTok as a platform with the objective of reaching our community and youth. Check out all the winning entries at **smud.org/TikTok**.

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1st place: https://vm.tiktok.com/ZMev4hQS8/ Emma Koller – Mira Loma High School

2nd place: https://vm.tiktok.com/ZMevCP6Fh/ Kaitlyn Dias – Sacramento Country Day School

3rd place: https://vm.tiktok.com/ZMetoNXx3/ Michael Karmazin – Casa Roble Fundamental High School

#### Middle School

1st place: https://vm.tiktok.com/ZMe7gr7GE/ Grace Timmons – Folsom Cordova Charter School

2nd place: https://vm.tiktok.com/ZMevgPp9o/ Jacob Wollwerth - Sutter Middle School

3rd place: https://vm.tiktok.com/ZMevX8SVJ/ Cristina Soltinschi – Winston Churchill Middle School

#### Virtual classroom visits

We're now offering free, virtual classroom visits including hands-on materials so your students can build, discover and learn whether they're remote or in the classroom. There are multiple lessons to choose from.

- Each lesson includes a fun, interactive self-paced online activity that can be assigned as class time or homework.
- Our staff can join your class to lead your students through engaging live exploration of your energy or sustainability topic.
- Materials are sent for your students to reinforce learning objectives.
- Worksheets are provided to accompany each lesson.
- Lessons are available for all grade levels and target NGSS standards.

To sign up for a free lesson, email **etcmail@smud.org**.







Did you know there are electronic devices that continue to use power even after they're turned "off?"

Be aware of "energy vampires" in your home that continue to draw power even when they're not on (e.g., anything with a built-in digital clock).

How do you stop energy vampires in your home?

Unplug things you aren't using, use power strips for devices you know use power while idle, adjust power settings on things like your computer or TV and consider getting timers for outlets to help control usage.

The National Resources
Defense Council estimates
that almost a quarter of the
energy used by your home
is consumed by idle devices

that aren't even on. It's estimated the average household in Northern California spends between \$210 and \$440 per year on energy vampires and the country as a whole spends \$19 billion per year for electricity we're not really using.

For videos on energy vampires and how you can conserve energy in your home or classroom, visit **smud.org/Education**. Student worksheets and teacher guides are also



# YES 2022 Youth Energy Summit

Climate change is one of the major issues youths around the world are struggling with. After all, its today's youth that are going to bear the brunt of it. That's why SMUD is hosting the Youth Energy Summit (YES) to help give a voice to today's youth for tomorrow's future. Participants will learn about SMUD's 2030 Clean Energy Vision and how to make sustainable changes to our community. Then, in teams, students will design and implement a community project to promote a cleaner, healthier region while competing for scholarships.

This 2022 event will be held **January 27-29** with virtual and live components. For updated information on presenters, recording and participating schools, visit **smud.org/YES**.



## National Science Bowl results from 2021

The 2021 National Science Bowl® (NSB) included 796 high schools and 352 middle schools from 49 states, the District of Columbia and Puerto Rico. The Department of Energy launched the NSB in 1991 to encourage students to excel in mathematics and science and to pursue careers in these fields and inspire the next generation of science leaders. More than 325,000 students have participated in the NSB since its creation.

SMUD continues to assist the Western Area Power Administration in sponsoring the Department of Energy's Regional Science Bowl, where high school students participate in quiz style math and science events.



#### 2021 Sacramento Regional Place Winners

1st, Mira Loma High School -	Team 1*
2nd, Mira Loma High School -	Team 2 - \$500
3rd, Mira Loma High School -	Team 3 - \$400
4th, Vista Del Lago High School -	Team 1 - \$300
5th, Davis Senior High School -	Team 1 - \$200
6th, Folsom High School -	Team 3 - \$100

<sup>\*</sup> Participated in national event

## Register for the 2022 National Science Bowl



Are your students interested in participating in the NSB? This fastpaced quiz competition may be perfect for those students who are looking for some excitement.

The Western Area Power Administration has set a date for the 2022 Science Bowl - February 26 at 8 a.m. in the Cordova High School Auxiliary gym in Rancho Cordova.

For more information, please email:

Mike Butolph Science Bowl Coordinator Butolph@WAPA.GOV

Zia Islam Science Bowl Project Manager Islam@WAPA.GOV

Grace Fernandez Science Bowl Administration GFernandez@WAPA.GOV



Note: Due to ongoing uncertainty with the COVID-19 pandemic, the event may pivot to a virtual event, should state and local health guidelines call for it.

Visit **science.osti.gov/wdts/nsb** for more information and sign up for the National Science Bowl competition.

### Educator workshops are here — Register early!

We've put together an exciting series of classes focusing on sustainability and the environment, taught by some of the most renowned presenters in their field, all for you! And don't forget, all of our classes are free and most provide you with materials you can use in your own classroom.

This spring, we're offering a mix of virtual and live workshops at exciting locations like the SMUD Museum of Science and Curiosity and the Sacramento County of Education. As always, safety is the most important priority for SMUD. Until state and county guidelines change, we'll be following strict safety measures at all of our live workshops, with social distancing, rooms at 25% capacity, furniture cleaned and disinfected and face covering requirements. Please note that SMUD will not provide meals at these workshops.

If you plan on taking an online workshop, please register at least two weeks in advance to ensure workshop materials can be mailed to the address specified in your online SMUD registration.

If you registered for a SMUD sponsored workshop at your school district, you'll also need to register at **smud.org/Education** so that we know you're attending and to ensure we have sufficient materials for your activities.

Please use your school email when registering. If you don't have an official email as a homeschool teacher or for any other reason, please send a note explaining to **etcmail@smud.org**.

Stomata imprinting through the NGSS lens (Grades 3-12) Tuesday, Feb. 1, 2022 | 4-6 p.m.

Sacramento County Office of Education (SCOE)

10474 Mather Blvd., Mather

Present P.O. Amy Kraft

Come and learn about the secret life of plants! SMUD plans to be carbon free by 2030. Learn how

you can introduce the study of carbon in your classroom by exploring how plants affect carbon in the atmosphere. Using a handheld microscope, you'll investigate plant stomatas. **Note:** Hand-held microscopes and other materials will be provided for the workshop activity.

Wind energy: Building energy-efficient windmills Tuesday, Feb. 8, 2022
4-6 p.m. (Grades 5-12)
Sacraments 100 Office of Facinon (SCOE)
10474 Mather Blvd., Mather



The Storybook phenomenon (Grades K-6) Tuesday, March 1, 2022 4-6 p.m.

Sacramento County Office of Education (SCOE) 10474 Mather Blvd., Mather

Presented by Jonathan Rhodea

Who doesn't like a good story? In this workshop, you'll explore engaging ways to intersect reading and science through literature. Discover hands-on activities that will turn a good story into a memorable experience for your students.



Join us for Blowin' in the Wind! Wind-powered energy is a renewable source of energy and it's one of the ways we plan to meet our goal of being carbon free in our power supply by 2030. Different cultures have been harnessing wind to do work for centuries using different designs. Give your students the gift of engineering windmills to accomplish a specific task and in the process, draw out science, math and engineering concepts that can span many grade levels.



#### smud.org/Education

Move it! (Grades K-12) Tuesday, March 8, 2022 4-5 p.m.

National Energy Education Development (NEED) Project Online



Did you know that transportation is one of the biggest contributors to carbon emissions and other pollution in the atmosphere? Learn how SMUD can make an impact in improving air quality in the Sacramento Region and learn the relationship between energy and transportation and how modern technology can help the environment. You'll help your students "Move it" with fun ways to learn about transportation.



Welcome to the SMUD Museum of Science and Curiosity (MOSAC) – Powering change (Grades K-12) Tuesday, March 22, 2022 | 4-6 p.m. Online

Presented by MOSAC and SMUD staff

Come and explore with us and learn how SMUD and MOSAC are working together to help our community reach our zero carbon goals. You'll tour MOSAC and learn about the opportunities available to teachers and students. Teachers will learn basic circuitry and make light up name tags.

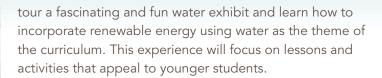


Splash! – It's hydropower (Grades K-3) Tuesday, March 29, 2022 4-6 p.m. MOSAC - 400 Jibboom

Street, Sacramento

Presented by NEED staff

SMUD will be carbon-free by 2030 and hydropower is one of the ways we can get there. In this workshop, you'll learn about the history of hydropower and how it helped shape the history of the Sacramento area as well as the basic science of potential and kinetic energy. You'll



Developing sensors: Detecting moisture in the soil Tuesday, April 5, 2022 | 4-6 p.m. (Grades 7-12) Sacramento County Office of Education (SCOE) 10474 Mather Blvd., Mather

Presented by Jonathan Rhodea

How does an engineering system make things work automatically? In this engaging workshop that uses soil moisture to teach about



technology, you'll learn how to teach engineering, coding and data collection using simple sensors. Designed for middle and high school students, this STEM curriculum will teach the importance of data collection, accurate journaling and technology. Please bring a laptop or notebook, other materials will be provided for you.

The reasons for seasons – Science vs. science myth Tuesday, April 19, 2022 | 4-6 p.m. (Grades 6-12 ) MOSAC - 400 Jibboom Street, Sacramento



Presented by Davin Bowker

To understand the fight against climate change, we all need to understand the science behind this phenomenon. How do you teach your students to understand critical thinking and use the scientific method? Using a study of the solar system, teachers will investigate common science misconceptions and how you can help your students overcome established myths. After the workshop, a Great Explorations in Math and Science (GEMS) teacher guide will be mailed to you at the address on your registration.

Workshops for educators Continued on next page



#### Spring 2022 Educator workshops | smud.org/Education



Are you searching for a fun and educational field trip for your students? Come and watch local high school students compete for the fastest car at the SMUD Solar Car Race in the quad at Cosumnes River College. Cosumnes River College will also be holding a small Earth Science and Environment fair. Learn more at smud.org/Solar-Car-Race.

Bristlebot Challenge (Grades 4-12)
Wednesday, April 27, 2022 | 4-5 p.m.
Online

Presented by Joshua Zimmerman of Brown Dog Gadgets Go, Go Bristlebot! You'll learn how to present basic circuitry with a simple and inexpensive "robot" made from easily accessible parts and a toothbrush. This is a fun way to teach the engineering method, using a robot friend for your students. This STEM activity is fun for younger students and can also be an introduction to engineering for students in the upper grades.

Engineering scientific devices using Scratch and circuitry Monday, June 6, 2022 | 4-6 p.m. (Grades 3-6)
Sacramento County Office of Education (SCOE)
10474 Mather Blvd., Mather

Presented by Stephen Callahan
Self-driving cars are coming! Bring your laptop or
notebook to this class and explore circuits and data coding
using Scratch. As an exercise, you'll create a time trigger
to measure how quickly an electric, motorized car drives
once given different forces which are acting on it. In the
process, you'll learn about the advantages of electric
transportation. Materials for the workshop will
be provided.



teams race full-sized, solar-powered boats they designed and built. Learn more at **smud.org/Solar-Regatta**. If you would like to arrange a field trip to this event, email your request to **etcmail@smud.org**.



Based at Mather Field, Sacramento Splash is a nature learning center located in an open space less than 20 minutes from downtown Sacramento. Splash offers a great way for kids to learn about the world around them, spend time with caring adults, find out about careers in science and learn how to take care of the environment.

Splash has integrated science education, child development and environmental stewardship into programming that is fun and engaging for kids. Even if school closures have upended your curriculum and field trips may be out of the question, this organization offers meaningful at home and schoolyard nature lessons. For more information, visit sacsplash.org.



### **Charge Up Change! competition**

The 3rd annual Charge Up Change! competition, open to middle school students (grades 6-8), was held last October. The challenge was to make a short video about how electric transportation is cool, post it publicly to YouTube and submit the link to us in order to be eligible to win up to \$1,500 in scholarship cash.

Many students researched electric transportation and presented informative, educational and numerous videos. All participants received a box of SMUD prizes as well as a family pass to the California Auto Museum.

The winners received invitations to speak at the California Auto Museum to a group of electric vehicle fans and members of the Sacramento Vehicle Association. Check out the winners and links to the 2021 winning videos:







First place, winning \$1,500 Eliza Philip from Folsom Middle School https://www.youtube.com/watch?v=mgU9z9msyWk



Second place, winning \$1,000

Judah Woolwerth from Sutter Middle School

https://www.youtube.com/watch?v=bdeE22NK46g



Third place, winning \$800
Team EV101: Eryn Roddy and Charlotte Brown from David Lubin Middle School https://youtu.be/Rfx0J8pnMls



Fourth place, winning \$500 Rohan Gopinath from Folsom Middle School https://youtu.be/T3xqtb5nvt0



Fifth place, winning \$200 Reena Prasad from Mills Middle School https://youtu.be/-\_fLRsIzQrw



### Community partners and energy education



# Shine Award partner - City Year Sacramento



SMUD recognized City Year Sacramento as an essential provider of academic support, social emotional care for students and added family engagement including STEM lessons. Additionally, City Year provides a bridge into SMUD's partner schools located in vulnerable neighborhoods where we're working to provide educational opportunities to students who may not have equal access to robust extra-curricular learning opportunities.

2020 started slowly with AmeriCorps student success coaches helping students get comfortable with the technology needed to participate in distance learning. While there is no question that was a frustrating time for students, teachers and AmeriCorps members, it paid off with students feeling much more confident using computers and various platforms to enhance their educational environment.

In 2020, City Year piloted one of our STEM lessons at Fern Bacon Middle School. This year, City Year was able to expand their partnership with SMUD to include both Leataata Floyd and Oak Ridge Elementary classrooms where they utilized SMUD

curriculum to teach a lesson on magnets and ultraviolet light. This partnership provided valuable exposure to sciencebased projects for the students City Year serves.



## Shine Award partner - Breakthrough Sacramento

Breakthrough Sacramento empowers under-served and under-resourced youth to reach their full potential with a multi-faceted six-year program that puts students on the path to college through personalized yearround academic support, advising, college counseling and leadership development. The goal of this organization is to cultivate skills for success that will ultimately transform lives. Breakthrough also serves as a pre-professional training program for diverse high school and college students who aspire to become educators.



See how we can make our communities shine at smud.org/Shine.



#### Students said YES to the 2021 Youth Energy Summit

130 high school students from 18 local schools attended SMUD's Youth Energy Summit (YES), a virtual event that gave them a voice in the future of green and sustainable transportation.

YES, invited high school students in Sacramento County to create teams that focused on learning, sharing and having fun figuring out ways to make our planet a better place to live. After the summit, the students were tasked to create and execute an actual community service project that accomplished one or more of these event objectives:

- Raise awareness of sustainable and/or equitable transportation.
- Leave a positive impact on our local community.
- Reduce the environmental impact of transportation.
- Help under-served communities of our region.



17 teams from 10 schools made presentations with the top 7 teams competing for the top prizes, which included scholarships of up to \$5,000. "It was very challenging to choose winners – there were many amazing projects that demonstrated the event objectives," says Community Education & Technology Education Specialist Kaelin Sherrel, who planned the event. "The top team will present at a future Board meeting and this year's competition will be themed around the 2030 Zero Carbon Plan."

#### The top 3 winners and team names were:



**1st place: Mystic, Mira Loma High School -** This team created and implemented a digital story book to help educate younger students on the reality of pollution and the importance of sustainability. Their creative solution was added to virtual classrooms and the QR codes will be added to Sacramento public libraries.







**2nd place: Lorem Ipsum, Cosumnes Oaks High School -** This team held an actual bike drive to collect bikes for families in need. The team enthusiastically presented their project while also explaining the roles each team member chose. They partnered with local community organizations as well as an elementary school and its Parent Teacher Organization (PTO).

**3rd place: GETA, Laguna Creek High School** - This project is a great example of a team who started with a lofty goal and paired it down to something more realistic to accomplish in the short timeframe. Their project pivoted after consulting with several members of the community including local legislators. In the end, they established a resolution, signed by Jim Cooper, California State Assemblyman, emphasizing the need for more electric vehicle charging infrastructure.

To watch all the winning videos and a video of the summit, visit smud.org/YES.

# SMUD partners with Republic FC to create STEM-based board game

Last August, we partnered with our local soccer organization, the Republic FC, to develop a game for teachers that creates excitement around math, science and soccer. At Taylor Elementary School in Sacramento, a pilot tournament with ten schools kicked off the game for students around the region. SMUD Board Director Rosanna Herber was in attendance to support the educational opportunities and partnership, which will prepare and inspire students to help build an inclusive clean energy future for all.



"STEM Goals" is a soccer-based math game, that is designed exclusively for Republic FC and SMUD to provide educators with a resource that links sports and science in a fun and engaging way. The board game is a simulated soccer game where 5th and 6th graders answer age-appropriate, standards-aligned questions across science, technology, engineering and math disciplines, working up and down the field to score goals using stats from Republic FC players. Chance and action cards give students

the opportunity to learn more about soccer, and a number of questions are focused on our 2030 zero carbon goal.

"With our goal of creating a zero-carbon future for our region, our priority is to support early education in science, technology, engineering, and math for youth of all backgrounds," says Chief Diversity Officer Gary King. "This partnership will equip the next generation of difference-makers with the tools to innovate, inspire and lead the way to a cleaner future."

"With more kids falling in love with soccer, creating a connection with math and science will inspire them to focus on building skills that will help them grow," says Republic FC President and General Manager Todd Dunivant in a joint press release.

To kick off the first season, 500 5th and 6th grade students at ten regional schools will participate and end the year in a tournament of champions to claim the title.

Learn more at SacRepublicFC.com/STEM-Goals.





# Powering Earth Day with a Virtual Art Competition



Last year, SMUD celebrated Earth Day and our ambitious goal of reaching zero carbon in our power supply by 2030 by holding an art competition for grades K-12. 18 drawings were chosen and were represented in a calendar. All participants received a calendar with the winning artists' art and all artists received SMUD-branded swag.









## Back to school tip-off with the Sacramento Kings

Last August, SMUD and the Kings celebrated the return of the school year with a "Back to School STEM Tip-Off" at City Church in Sacramento. We handed out dozens of free STEM kits to kids entering grades 1 through 6 to get them excited about science, technology, engineering and math as they headed back into the classroom. SMUD staff held short demonstrations on each activity and the kids went home with kits equipped with the tools they needed to engage in the fun STEM activities.

The Sacramento Kings joined the action with a bean-bag toss, DJ Eddie Z and lots of great swag. "The purpose of the partnership is to expose young students to STEM in the hopes that they eventually choose careers in science and engineering," says Community Education & Technology Center Manager Jacobe Caditz, who also talked to the media about the importance of supporting community partners.

You can check out our education-based programs for residential customers, students and teachers at smud.org/Education.





#### Introducing Sacramento's newest science center:

# SMUD Museum of Science and Curiosity, or simply SMUD MOSAC

Venture into themed exhibition galleries on health, nature, energy, water, engineering and space. With over 100 exhibits, there are lots of interactive opportunities for hands-on learning!

SMUD MOSAC is a great place for school field trips and for people of all ages to spend a fun-filled day.

Learn more at VisitMOSAC.org



### Please, be safe and stay well

To all our teachers, students and families – please, be safe and stay well.

As an essential service provider, we're committed to taking proactive measures to limit the risk of exposure of coronavirus (COVID-19) for our employees and the public.

The pandemic remains a very fluid situation, for example recent spikes in virus variants. All SMUD events and workshops are subject to immediate change or modification, new or additional safety controls being implemented, cancellations and other changes as needed.

Learn more about how we're helping you and how you can help, by exploring smud.org/HeretoHelp.



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