We don’t play favorites at Accelerate Learning — we love every aspect of STEM. Students deserve an education that reveals the wonders of science, technology, engineering, and math, and teachers should have the tools they need to explore these subjects with their students. To achieve these goals, we provide a comprehensive suite of results-oriented STEM curriculum from TK through high school.

Scan the QR code or visit www.acceleratelearning.com to learn more about our STEM solutions!
WELCOME FROM CASE PRESIDENT

On behalf of the California Association of Science Educators (CASE), it is my pleasure to welcome you to the California Science Education Conference 2023. How awesome is it to be back in Palm Springs? Beautiful scenery and great restaurants await you. But first, the conference. Conference is always a great space for science educators throughout California to come together for a few days of learning, sharing, connecting, and hopefully a little relaxing (you know you deserve it)! As always you will experience workshops specifically for your needs, passionate and knowledgeable speakers, and exhibitors with something for everyone. And don't overlook the social events. We are so glad you are here.

Please be sure to attend the Annual CASE Members Meeting on Friday, October 20, 2023, starting at 4:00 pm where we will share all the amazing things that CASE is doing for you. In addition, we will honor this year's CASE award winners and celebrate all they have accomplished.

It takes the work of many to make this conference possible. The conference committee has worked tirelessly throughout the year along with our partner organizations and staff to bring this community of science educators and supporters together. As we focus on the needs of all the students in our state, we remember that we have work to do. So, we come together, and we move the vision forward each and every day. Thank you for taking the time to be here this week to continue supporting NGSS implementation, diverse and equitable classrooms, and science programs, and raising up each other as we do the best we can, and then we do better.

I hope you all enjoy your time in Palm Springs. Enjoy the workshops, don't miss the exhibit hall (it is bigger and better than ever), unwind at the social events, and make some new friends. Oh, and don't forget to stop by the CASE Booth for surprises and to find out how you can become more involved.

Enjoy the 2023 California Science Education Conference. It is here for you!

Debbie Gordon
CASE President (2023-2025)
WE THANK OUR SPONSORS!

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3d molecular designs
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Science Leaders Day Sponsor
Visit Booth 321

DOWNLOAD THE CONFERENCE APP

Visit Booth 409
On behalf of the 2023 Conference Committee, CASE Board of Directors, and our invaluable CASE staff, it is our pleasure to welcome you back to beautiful Palm Springs for the 2023 California Science Education Conference!

Our theme for 2023, "Inspiration, Integration, and Innovation," reflects not only the evolving landscape of science education but also the collective aspirations that drive us as science educators. We are committed to inspiring the next generation of scientists and citizens, integrating cross-disciplinary knowledge for a well-rounded education, and innovating in our methods and tools for a more impactful learning experience.

Building upon last year’s focus on equitable science education, this year’s conference offers enriching opportunities to explore strategies for inspiring students, effectively integrating science with other subject areas, and embracing innovation in the classroom. We recognize that we stand at an intersection where science education must be both equitable and progressive, aiming to serve all communities while keeping pace with rapid advancements in the field.

The conference schedule is brimming with over 180 workshops, specialized courses, and captivating Keynote and Focus Speakers who are experts in their respective fields. Our exhibit hall will feature more than 75 companies showcasing the latest in educational technology and resources. Together, these elements create a holistic platform for professional development, networking, and knowledge-sharing.

We are incredibly excited about this year’s keynote speaker, Dr. Tyrone B. Hayes, Professor of Integrative Biology at UC Berkeley, Associate Dean for Diversity, Equity, and Inclusion, and the Judy Chandler Webb Distinguished Chair for Innovative Teaching and Research. Dr. Hayes’s research focuses on developmental endocrinology with an emphasis on evolution and environmental regulation of growth and development. Dr. Hayes’s keynote address, which will kick off the conference on Friday evening, will be preceded by the CASE Annual Meeting & Awards Recognition, and followed by our famous water engineering pool challenge. We are equally thrilled about this year’s focus speakers, Jacob Goldsmith, AP Computer Science/AP Mathematics, Newark Memorial High School, who will present an in-depth session on "Zero to CS4ALL;" Robert Simmons III, EdD, Head of Social Impact and STEM Programs, Micron Foundation, who will present on "Hip Hop, STEM and Semiconductors;" and the CASE Diversity, Equity and Inclusion Committee whose members will present on "Creating Inclusive Science Learning Spaces."

Your contributions as science educators are integral to shaping a future where science is not just a subject, but rather, a lens through which we can understand and solve real-world challenges. We look forward to collaborating with you over the next few days to better our practices, expand our networks, broaden our horizons, and reignite our passion for science education.

Welcome to CASE 2023. Let’s make it a landmark year for science education in California and beyond!

Thank you for being here. Enjoy the Conference.

Shay Fairchild, Doron Markus and Kelli Quan
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POOLSIDE PARTY
& WATER ENGINEERING CHALLENGE

FRIDAY, OCTOBER 20
6:30 PM - 8:30 PM

TICKETED EVENT - $15
RENAISSANCE POOL

Purchase your ticket at On-Site Registration Counter

Ready, set, go! Grab your friends, colleagues, strangers and form your team for a cardboard engineering boat challenge (up to 6 people per team) and race across the largest swimming pool in Palm Springs. Put your heads together to construct your boat and sail away!

We'll have prizes for the last boat standing – be our 2023 CASE Poolside Water Engineering Champions!

SIGN YOUR TEAM UP AT ONSITE REGISTRATION COUNTER

There will be music, networking and of course food and drinks. The Renaissance Palm Springs Hotel pool deck features cabanas, fire pits, and a heated swimming pool. Don't forget to bring your bathing suit!

This evening will sell out fast – so be sure to add this $15 ticket to your conference registration.
CASE Annual Membership Meeting & Awards Recognition
October 20, 2023 | 4:00pm – 4:45pm
PSCC Primrose B-D

Join us for the CASE Annual Meeting of members presided over by the 2023-2025 President Debbie Gordon. Learn about the work of CASE over the past year, made possible with the support of our membership. In addition, join us as we honor and recognize the amazing accomplishments of our 2023 CASE Awards Recipients.

OpenSciEd and Carolina have partnered to make high-quality instructional materials even better for California’s teachers and students.

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California Association of Science Educators 2023 Award Recipients

Please join us as we recognize the Award Recipients on Friday, October 20 at 4:00pm | PSCC Primrose B-D

FUTURE SCIENCE TEACHER AWARD
Yvonne Hernandez-Guerra

To me this award means that whatever it is that I'm doing in my career I am doing right. This award shows me that I am capable of bringing science into future classrooms and expanding the interest of my students in a way that they probably didn't think it was possible. This award to me is viewed almost as a validation for all the hard work I have put for my passion of being a science educator.

FUTURE SCIENCE TEACHER AWARD
Morgan Myhre

This award makes me feel seen in my passion and enthusiasm for science education. It also makes me feel really appreciative of my family, especially my partner, whose support has made it possible for me to focus on work and school for the last few years so that I could pursue a teaching career.

SCIENCE TEACHER OF THE YEAR AWARD: UPPER ELEMENTARY
Abigail Paske

I feel like I'm trying to make my small corner of the world a more equitable, curious, thoughtful, wondrous, place - one science lesson at a time. I'm not special; I'm one of many hard-working teachers who love what they do. So, in short, I'm honored, humbled to receive any recognition for my work.

SCIENCE TEACHER OF THE YEAR AWARD: UPPER ELEMENTARY
Rachel Bloom

Receiving this award was a big shock. Great science education happens all over the state. For me, it is recognition for the hard work I put into the science teaching and learning that happens in my classroom and throughout my school district. I feel like I spent the last 16 years earning the award. I will spend (at least) the next 16 years showing everyone that I deserve the recognition. I will continue to up my game and do as much as I can to provide the best science instruction to my students. I will work hard for all students in my school district, and beyond, to get them the best science instruction I can.

SCIENCE TEACHER OF THE YEAR AWARD: MIDDLE/JR. HIGH SCHOOL
Russ Robb

Receiving this award is validation that I am guiding students to achieve academic success in their future endeavors.

SCIENCE TEACHER OF THE YEAR AWARD: HIGH SCHOOL
Camille Fowler

This award is humbling and unexpected because California has some of the most amazing educators. It is an honor to be recognized for my contributions. This award has given me an opportunity to reflect on over 24 years of teaching, learning, and serving students in my community. I can often be overly critical of my skills, abilities, and impact. I think this award means that I am doing something right.
JESSICA SAWKO TEACHER LEADERSHIP AWARD
Brad Schleder
I have been a CASE member for almost 30 years. CASE was instrumental in furthering my career in science education leadership. I learn a great deal from attending and presenting at CASE conferences and count many CASE members as my friends. Receiving the Jessica Sawko Teacher Leadership Award is a tremendous honor and is the most significant professional award I have received.

ADMINISTRATOR LEADERSHIP AWARD
Jaime Anderson
I am honored to be recognized for our team’s work. I appreciate the recognition and was a member of an amazing team of district and school administrators and teachers; they are the change makers every day for our students.

MARGARET NICHOLSON DISTINGUISHED SERVICE AWARD
Dawn O’Connor
I am so honored to have received this award and grateful to my colleagues who wrote letters in support of my nomination. When I think about my colleagues that have previously received this award, I am humbled to be included amongst these fearless leaders who have stood up for science education over their career. These are my mentors, friends, and have been my role models! I feel that this award is a reflection of the incredible partners I have had to work alongside, the generosity of my family to give me space and time to take on new leadership, and the trust of others as I worked on new projects.

Califonia Association of Science Educators 2023 Award Recipients

JOIN US
AS WE RECOGNIZE THE AMAZING ACCOMPLISHMENTS OF OUR
2023 AWARD RECIPIENTS
FRIDAY, OCTOBER 20, 2023
4:00 PM – 4:45 PM
IN CONJUNCTION WITH
THE CALIFORNIA SCIENCE EDUCATION CONFERENCE

OCT 21 Location: Mesquite E
HHMI Is Phenomenal!
8:00 AM-9:15 AM
Using BioInteractive to Create Phenomena-Based Lessons

9:30 AM-10:45 AM
The Wonders of Cell Division
with HHMI BioInteractive

1:00 PM-2:15 PM
Stolen Plastids?
Investigating Photosynthesis and Energetics with HHMI BioInteractive

2:30 PM-3:45 PM
Connecting Concepts in Biology
Using BioInteractive’s Sickle Cell Disease Resources

Visit biointeractive.org
California Association of Science Educators 2023 Award Recipients

PRESIDENTIAL AWARDS FOR EXCELLENCE IN MATHEMATICS AND SCIENCE TEACHING (PAEMST)

2023 PAEMST Finalists

Maria Hernandez-Gonzal  
Lorbeer Middle School, Pomona Unified School District

Amber Lancaster  
Raoul Wallenberg High School, San Francisco Unified School District

Samantha Stickley  
San Marcos Middle School, San Marcos Unified School District

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As the advocate for high-quality science education in California for more than 50 years, the California Association of Science Educators (CASE) offers networking, professional development, and advocacy to ensure state policies and legislation support you in inspiring your students.

Stay Current on Science Education Issues
Rely on CASE to keep you informed of the latest developments on Next Generation Science Standards (NGSS), Common Core State Standards (CCSS) and other issues that impact science education. Through the annual conference, updates on hot issues, newsletter, website resources, and social media, CASE will help you understand changes in our profession and provide strategies recommended by science educators.

Benefits of Membership
Join with other educators who share your passion for science, want to inspire their students, and have realized the benefits of an association advocating their interests at the state level.

Your Annual Membership Includes:
- Advocacy for Science Education
- Access to Member Community Portal, available at www.cascience.org
- Community Forums
  - Access to Webinars/Videos/CASE sponsored Professional Development Resources
  - Access to CASE Member Community Online Store
- Discount Registration to CASE sponsored events (California Science Education Conference and CASE hosted webinars, trainings and seminars)
- Communications and updates on topics of importance to science education
- Networking opportunities
- Invitation to CASE Member Community Exclusive events
- Invitation to vote in CASE Board Elections
- Opportunity to serve on CASE committees, board and in other leadership positions

Plus, much more is in its development stages! We look forward to providing even more value to our members!

Let's build a CASE Community of Science Educators – JOIN CASE TODAY!
UNITS OF CREDIT FROM CSU LONG BEACH

CSU Long Beach is once again offering conference attendees an opportunity to earn a unit of upper division science education credit in conjunction with the 2023 California Science Education Conference.

Conference participants may apply for one unit of upper division credit associated with the professional learning they get through participating in conference keynote presentations, workshops, or focus speaker events. A minimum of 12 hours of session attendance during the conference and a written assignment are required. This unit of credit (SCED490A #12491) requires an additional tuition fee of $99 and course registration by November 7, 2023. Assignment information is available on the CSULB Science Education website (www.scienceteaching.org).

Participants must submit their official CASE Certificate of Attendance and written assignment to Dr. Lisa Martin by November 7, 2023 and complete their registration with CSULB's College of Professional & International Education. Credit for the course will appear before January. Assignment and registration details will be available online at www.scienceteaching.org.

The course is SCED490A: Special Topics in Science Education (this course can be repeated for a maximum of six units with different topics – so be sure you have not already completed six units of SCED490A at CSULB).

Certificate of Completion

CASE will provide a certificate of attendance/completion listing the complete contact hours to any registrant completing and submitting the necessary paperwork.

Submit the written assignment and register on-line by November 7, 2023.

Only complete registration packets (registration form, CASE Certificate of Attendance and written assignment) will be eligible for course credit. Late registration and late assignments cannot be accepted. You will be contacted by CSULB to complete the registration process (payment).

Dr. Lisa Martin
Professor Science Education CSU Long Beach
Lisa.Martin@csulb.edu

B. To obtain the CASE Certificate of Completion/Attendance

1. Complete this form and the PD Passport/ Certificate of Attendance on page 13 presenters must sign where indicated for an attendance certificate to be issued.

2. Turn it in at the conference registration desk before 1:00 pm on Sunday, October 16, or if you are not able to turn it in at the registration desk, send this completed Passport to CASE so that it arrives no later than October 30, 2023.

Send to: CASE, 3620 American River Drive, Suite 230, Sacramento, CA 95864; fax to: 916-294-0415; or e-mail to: admin@cascience.org.

PD PASSPORT/CERTIFICATE OF ATTENDANCE

PROCEDURE

A. To obtain the unit of credit from CSU Long Beach

Requirements

1. Be an officially registered conference attendee (must provide a copy of your conference nametag)

2. Attend conference sessions totaling at least twelve documented hours

3. Register for the unit of credit by November 7, 2023

4. Electronically submit the following documents to Dr. Lisa Martin (Lisa.Martin@csulb.edu) by November 7, 2023
   - CASE Certificate of Attendance (verification of attendance and participation at 12 hours worth of workshops, conference lectures)
   - Word processed written assignment [csulb.edu/scied]
**PD PASSPORT/CERTIFICATE OF ATTENDANCE**

Please note which sessions you attend and obtain the signature of the presenter to confirm attendance. You will need to complete this form for the university credit and/or certificate of attendance.

- ☐ University Credit  ☐ Certificate of Attendance

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**TOTAL HOURS COMPLETED** (Minimum 12 hours for university credit)

I certify that the foregoing documentation is true and correct and that I have attended the courses indicated above. Signed _____________________________

Your Name _________________________________________________________________________________________________________

Mailing Address _____________________________________________________________________________________________________

City _________________________________________________________________________________ State ______ Zip _______________

Phone _____________________________________________________ Email __________________________________________________

Grade Teaching ________ Number of Years Teaching ________ Credential Type ______________________ College Major ______________________

Select one:  ☐ One unit of credit from CSU, Long Beach ($99 enclosed)  ☐ CASE Certificate of Completion/Participation only (No fee required.)  
☐ SCED 490A

Area of focus of the sessions attended:  ☐ Earth/Spac.  ☐ Life  ☐ Physical  ☐ Integrated
EXHIBIT HALL FLOOR PLAN
2023 EXHIBIT HALL GUIDE

PALM SPRINGS CONVENTION CENTER
One of the highlights of the California Science Education Conference is the extensive array of science products in the Exhibit Hall. We urge all conference attendees to take every opportunity to visit the exhibits. The Exhibit Hall features more than 75 companies and organizations which offer products and services for every aspect of science education. From publishers to non-profits, from projectors to microscopes, the California Science Education Conference Exhibit Hall is your one-stop venue for all things science education. Be sure to visit the Exhibit Hall early and often, and bring a bag to hold all the goodies you’ll buy and freebies you’ll collect!

EXHIBIT HALL SCHEDULE

Friday, October 20 • 9:30 am – 4:00 pm | (exclusive time*: 11:00 am – 12:30 pm) | 3:15 pm - 4:00 pm  
Saturday, October 21 • 8:00 am – 3:00 pm | (exclusive time*: 11:00 am – 12:45 pm)

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CASE is pleased to present the wide variety of learning and informational opportunities available at this conference. CASE does not, however, endorse products or services promoted in the exhibit hall. Opinions expressed are those of the presenting companies and do not necessarily reflect the position of CASE. CASE shall not be responsible for loss or injury resulting from the purchase or use of goods and services offered at the conference.

TCi Bring Science Alive! www.teachtcicom/science Booth #111

Getting Ideas Across: Integrating Literacy Skills in Science Investigations
Friday, Oct 20, 2023
9:30am - 10:45am
Mesquite D, Palm Springs Convention Center

Phenomena-Driven Lessons for the Middle School Classroom
Friday, Oct 20, 2023
2:00pm - 3:15 pm
Mesquite D, Palm Springs Convention Center

See Us in Action
EXHIBITOR DIRECTORY

3D Molecular Designs ....................... 405
Our interactive kits and models give words meaning by focusing on core ideas and intersecting concepts in biology, chemistry, physical and life sciences. We collaborate with teachers across the U.S. in developing products, field testing, hosting sessions and more. Kits support STEM, NGSS, IB, PLTW and can be incorporated in existing curriculum. Ask about our new Mighty Models today!

Heather Ryan
804 N. Milwaukee Street, Suite 200
Milwaukee, WI 53202
3dmoledesigns.com
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Activate Learning .......................... 217
Our programs (digital and print) make your science and mathematics standards come alive. Our authors are top-tier researchers and brilliant educators whose work is supported by the National Science Foundation and other esteemed institutions. Students engage in authentic projects where they act as scientists, engineers and problem-solvers. They work with their hands, model with technology, deliberate with their peers, and record their thinking in multiple formats. We give teachers the support they need to engage student with phenomena, facilitate productive discourse, and differentiate instruction. Our programs embed just-in-time professional learning materials, developed by fellow educators, in every lesson.

Amy Kowalczyk
44 Amogerone Crossway, Suite 7862
Greenwich, CT 6836
activatelearning.com
AKowalczyk@activatelearning.com

Algae Research and Supply .............. 317
Algae Research Supply is a small company supporting education on aquatic systems. Our mission is to promote the understanding of our universe through the application of the scientific method. The founder, Matthew Huber M.S., is trained as a Biological Oceanographer. He has spent his entire life in research and development in the sciences. During the 90s he worked in pharmaceuticals (Allergan and Purdue). During the 2000s he shifted his focus to marine science. He has been heavily involved in education, teaching at Hartnell, Cuyamaca, and Mira Costa Colleges. He has been working specifically with algae cultivation since January of 2000. Studying phytoplankton photosynthesis at Moss Landing Marine Labs. Later he did research on Arthrospira platensis (spirulina) for Earthrise Nutritional in the Imperial Valley of California. Mr. Huber was also involved in the efforts to bring algae-biofuels to market, working for General Atomics, Green Reactions and several smaller startups. He was involved with building algae farms in New Mexico, Texas, California, and Hawaii. In 2009 he received a grant from the State of California to build next-generation harvesting and growing equipment for algae biofuels. Low petroleum prices have caused much rethinking of the algae-biofuels concepts. Fortunately, Mr. Huber had found a niche in teaching others how to grow algae. Algae research supply has found its place in support of education. We believe that meaningful projects can be done on a shoestring budget.

Matthew Huber
1405 Buena Vista Way
Carlsbad, CA 92008
AlgaeResearchSupply.com
Matthew@algaeresearchsupply.com

Algalita Marine Research and Education . T10
Algalita is internationally known as the organization that started the movement to end plastic pollution nearly 30 years ago. We were the first to discover, and bring attention to, the swirling soup of plastic pollution in the Pacific – now known by many as the Great Pacific Garbage Patch. Since then, we’ve worked to revolutionize the plastic pollution conversation by building a web of connections between researchers, activists, industry leaders, educators, and young people across the globe. Today, Algalita investigates to educate. Our mission is to design and deliver educational experiences that empower individuals to understand the full-scope of plastic pollution’s impact on people and the planet, while also providing tangible ways to support solutions. In May 2023, we launched Wayfinder Society for Environmental Education is our NEW dynamic, free online program that enable educators to effortlessly discover environmental education resources that are expertly curated, aligned to educational standards, and most importantly fun and interactive. The program offers a deep dive into ocean conservation by exploring the systemic causes and solutions behind our most pressing environmental issues.

Emily Wanous
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Long Beach, CA 90803
algalita.org
emily@algalita.org

Amplify .............................. 425
Amplify’s ELA, math, science, and assessment solutions are setting the standard for next-generation, high-quality instructional materials and assessment. Grounded in cutting-edge research and brain science, our core and supplemental solutions inspire all students to think deeply, creatively, and for themselves. They also empower teachers to deliver rich, rigorous, and continuous learning experiences every day in any setting — at school, at home, or both. In addition, our formative assessment tools turn data into action with practical instructional support to help students at every skill level build a strong foundation in early reading and math. Today, Amplify serves more than five million students in all 50 states. Visit amplify.com for more information.

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kweirich@amplify.com

Anatomage ......................... 418
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Tracy Tang
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anatomage.com
tracytang@anatomage.com

Arbor Scientific ..................... 410
Arbor Scientific is a leading provider of Physics teaching equipment. We work with teachers to find the “Cool Stuff” and then provide lesson plans and teaching supplies.

Alex Gonzalez
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Saline, MI 48176
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Bedford, Freeman & Worth Publishers . 408
At BFW we pave the way with innovative STEM resources, including market-leading AP® science texts and on-level programs aligned to NGSS. Visit our booth to learn about our best-selling texts.

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hsmarketing@bfwpub.com
EXHIBITOR DIRECTORY

Bio-Rad Laboratories.......................... 219
In step with evolving technologies, the Bio-Rad Explorer program produces top-quality kits, equipment, reagents, curricula, and resources to help you stay on the leading edge of science education. Our mission is to make science accessible and to keep students at the center of instruction. By working in close partnership with master educators and scientists who are experts in their respective fields, we design and develop products that are engaging and relevant to real-world science for high school, CTE, community college, and four-year universities. We focus on providing teachers with the best, most reliable resources possible so they can focus on what they do best – teaching! The Bio-Rad Explorer program offers: Hands-on laboratory activities that prepare students with foundational skills and expand their experience with cutting-edge techniques — all in a format that is appropriate for classroom laboratories Engaging curricula that connect concepts with techniques and provide the context of real-world scenarios Industry-quality instruments and reagents so students gain experience with the tools scientists use in their research Professional development opportunities and teaching resources that support teachers in their quest to spark interest in life sciences For more information, visit us online at explorer.bio-rad.com

Erin Handsfield
6000 James Watson Drive
Hercules, CA 94547
explorer.bio-rad.com
erin_handsfield@bio-rad.com

BIOZONE Corporation.......................... 209
Inspiring better outcomes for our planet through science education BIOZONE has more than 30 years experience in the development of engaging and effective resources for science teaching and learning. Our resources are unlike any you’ve seen before, and a departure from the traditional basal textbook paradigm. We take a “worktext” approach, combining the very best features of a traditional textbook with an interactive workbook. The resulting hybrid provides well designed, compact lessons that engage students and provide a rigorous yet accessible program of work. Our extraordinary suite of resources meet the challenges of teaching today’s students, whether they be in a traditional classroom environment, an informal teaching setting or learning remotely. BIOZONE is renowned for its engaging presentation of content with a strong visual appeal. Our expert writers bring science to life through the use of phenomena from engagement to assessment. We continually revise and improve on our resources to ensure they remain current and relevant to your needs. Part of this process is engaging with you, as teachers and valuing your feedback, and we are only ever a phone call or email away. By their innovative design, our resources encourage student interaction, using simple investigations and data analysis to engage students in the science around them. Innovative strategies to encourage critical thinking and problem-solving help your students develop the 21st-century skills they need to succeed.

Stephanie Hayes
18801 E. Mainstreet, Suite 240
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BrainPOP........................................... 321
BrainPOP Science complements the core science curriculum in middle school science classrooms with consistent, authentic opportunities for students to transfer and apply knowledge through the experience and practice of science in multiple contexts. It makes science learning engaging, effective, and relevant to students by challenging their previous knowledge and nurturing their curiosity to think scientifically, approach guiding questions through observations in multiple contexts, ask interesting questions, engage in scientific debates, and construct explanations with evidence. Ready-to-use, standards-aligned investigations center around relatable guiding questions and real-world phenomena in which middle schoolers are interested, nurture their innate scientific curiosity, and build their comfort and confidence for state science assessments. In addition, data manipulatives, simulations, BrainPOP 3D Worlds®, and the overarching Claim-Evidence-
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Reasoning (CER) processes provide students with authentic opportunities to "be a scientist" in the classroom. As a result, they build critical scientific and data literacy skills, activate prior knowledge, make and collect observations, check their understanding, construct evidence, and explain their reasoning. The product has been designed to meet the Next Generation Science Standards (NGSS) requirements and is aligned to science standards across all 50 states.

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renees@brainpop.com

California Geological Survey ..................... 429
The California Geological Survey is one of the oldest geological surveys in the nation. Our history is connected to our State's history and is intertwined with the discovery of gold! We provide information, scientific products, and services regarding the state's geology, seismology, and mineral resources that affect the health, safety, and economic interests of the people of California. CGS resides within the California Department of Conservation within California's Natural Resources Agency.

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California Association of Science Educators (CASE) .................. 325
CASE leads the promotion of high-quality, equitable science education through advocacy, collaboration, and communication. Recognizing that science has a profound influence on our lives, our local environments, and our world, CASE fosters a community focused on enhancing scientific and environmental literacy and agency for all.

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California Department of Water Resources - Water Education Program .... 528
DWR manages California’s water resources, systems, and infrastructure, including the State Water Project (SWP), in a responsible, sustainable way. Our water education program provides free resources to K-12 educators.

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education@water.ca.gov

Carolina Biological Supply Company ... 409
Carolina Biological Supply Company is a worldwide leader in science education, providing top-quality science and math materials for K-16 educators. Products, kits, and free teacher resources are available at www.carolina.com.

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Concordia University Irvine ................. T2
It is our mission to empower students for a life of teaching, learning, and service to the community. We strive to provide ongoing professional development for our alumni and network of educators. Preparing professional educators has always been at the core of the School of Education. We provide a pathway for people who want to experience growth and ignite curiosity. Here you will thrive in today’s world – and shape tomorrow’s.

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CSU Long Beach ............................. T6
The Science Education Department at California State University, Long Beach prepares a scientifically literate citizenry by educating and inspiring people to learn about and do science.

We are one of the largest Science Education departments in the country.

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csied@csulb.edu

Desert Sands Unified School District ........ T5
Desert Sands Unified School District is located in La Quinta California. Our mission is to provide a dynamic system of challenging educational choices, collaborative staff working with our families and extended partnerships. We invest in professional development for teachers and staff to cultivate their individual creative talents, assisting with techniques to inspire the development of new teaching skills and prepare for an exciting long-term career with competitive health benefits for the employee and eligible dependents.

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Disney Imagination Campus ............... 208
At both Disneyland® Resort in California and Walt Disney World® Resort in Florida, Disney Imagination Campus has a collection of experiences designed to fuel your student's imagination and grow their skillset in a wide range of subjects that include Performing Arts, Leadership & Innovation, Arts & Humanities, and Science & Technology. Through immersive, hands-on learning, students will learn in-demand skills, build self-confidence, and prepare themselves for life's awaiting adventures. To learn more, visit www.disneycampus.com.

Disney Imagination Campus Sales
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Anaheim, CA 92802
disneycampus.com
DLR.Campus.Sales@disney.com

Donate Life California ..................... T4
Each year thousands of California high school students apply for their first driver’s license or identification (ID) card. They are presented with the opportunity to join the organ and tissue donor registry through Donate Life California. Many students are unaware of what being a donor means and how they can greatly help their communities. Donate Life CA is committed to providing information to students prior to going to the DMV as it allows them to make an educated decision.

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lacey@donateLIFEcalifornia.org
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**EAT Foundation** .......................... T3
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**Education4Equity** .......................... 419
Education4Equity provides a practice test for California teachers to give to their students so that students can prepare for the CAST and teachers can highlight knowledge deficiencies among their students regarding key NGSS standards.

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sarah.ed4equity@gmail.com

**EduChange, Inc.** .......................... 508
The reality is that real-world STEM research, majors, and jobs are not siloed. EduChange is the only curriculum, assessment and PD provider to embrace the integration of all science disciplines, technology, engineering, arts/design, literacy and math to create formal course pathways for Grades 8-14. Any certified science teacher can be successful, and we provide extensive on-the-job coaching and supply order support. We have California place-based units of study, local data sets, and field partners across the state to help schools integrate all 17 UN Sustainable Development Goals for personal, local and global learning connections. We have evolved our unique designs using the NRC Framework since 2012, provide complete CA NGSS and EP&C alignment, and embed CAST prep. For added flexibility, we've engineered 2-yr, 3-yr, and 4-yr options that phase in, and can slide up or down the grades to accommodate pandemic interventions. These are A-G laboratory-intensive science pathways that also prep for IB/DP and AP courses, and begin as early as Grade 8. You do not need more science class time or expensive equipment. And we are the only providers with comprehensive competency-based assessment systems and analytics for HS science. If your current HS course pathway, curriculum or assessment model is not working the way you'd like, stop by our booth and attend our sessions. There is a different path forward, and you don't need to start from scratch!

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**Edvotek** .......................... 212
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for High School Science provides 3-dimensional learning with a balance of digital and non-digital opportunities to collaborate and explore.

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EF Explore America ............................... 518
EF helps teachers change their students’ lives through educational travel. When students travel on EF tours, they expand their knowledge of the world around them, discover more about themselves, grow more confident and independent, and understand new people, places, and cultures. And when educators lead these tours, they grow in countless ways, bringing back a new perspective to their own classroom.

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Energy is Everything ............................. 413
The Energy Coalition (TEC) is creating the building blocks for a new energy economy in which communities become energy-producing networks and clean energy becomes affordable and accessible for everyone. TEC’s Energy is Everything program is its TK-12th grade education program that provides educators with the tools and resources to help their students build the knowledge and skills needed for a changing energy future. Enrolled educators gain access to a variety of resources at no cost! - NGSS-aligned environmental STEAM lessons - Lessons supplies for a hands-on learning experience- Online resources to encourage an interest in STEM careers- Staff support from the Energy is Everything team

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Envirolution ..................................... T11
Envirolution is a 501 (c)(3) nonprofit organization dedicated to developing and scaling dynamic K-12 education, youth leadership, and community outreach programs centered around energy efficiency, sustainability, and Science, Technology, Engineering, Art and Math (STEAM) career opportunities. Established in 2007 and based in Reno, Nevada, Envirolution’s mission is to inspire and empower the next generation of leaders and workers who will drive the growth of a sustainable economy. With a focus on hands-on service learning, our programs not only provide career development for students, but also enable our participants to give back to their communities. Envirolution seeks to promote global change by championing local efforts that empower citizens to do positive, meaningful work and to make a good living while giving back to the social and environmental communities.

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Exploratorium .................................... 316
Exploratorium K-12 Educator programs help teachers and professional learning providers bring hands-on, inquiry-based science learning to classrooms everywhere. We provide free science activities and resources, professional development, and lifelong support and networking through our educator communities.

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dshen@exploratorium.edu

ExploreLearning .................................. 416
ExploreLearning® creates seriously fun ed tech solutions for the most critical challenges in K-12 STEM learning. Effective and fun, our programs help students not only succeed at math and science, but also love it as much as we do. Learn more about Gizmos®, Reflex®, Frax® and Science4Us® at www.explorelearning.com.

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Charlottesville, VA 22902
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sales@explorelearning.com

Fisher Science Education ..................... 320
Fisher Science Education offers a full range of Science lab equipment and supplies for all K-12 customers. STEM- Biology-Biotech-Chemistry-Forensics-Physical Science-Environmental-Earth and Space.

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forward Education ............................. 229
Forward Education delivers meaningful learning experiences through a purpose-driven STEM education solution. We do this by presenting real-world climate change issues as opportunities for learners to explore and create STEM solutions using our coding and robotics kit and online learning platform.

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Girls Who Code .................................. T9
Girls Who Code is an international nonprofit leading the movement to close the gender gap in technology. We’ve reached 500,000 girls (cis and trans) and non-binary students through our programming and have sparked culture change through marketing campaigns and advocacy efforts, generating 13 billion engagements globally. We have 90,000 college-aged and post-college alumni—nearly 3x the number of women who graduated with a degree in CS or related fields in 2019!

Michaela Burger
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Green Ninja ....................................... 309
We’re empowering the next generation to build a brighter future.

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dianacenteno@greenninja.org

HHMI BioInteractive ........................... 204
HHMI BioInteractive develops free resources, including short films, virtual labs, apps, and print materials, that are based on real data and highlight the science practices. These high-quality multimedia resources are developed, vetted, and field-tested by educators and scientists - and are all tied to major curriculum standards.

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noelk@hhmi.org
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InnerOrbit ............................................. 305
Build assessments and sensemaking activities from our database of NGSS aligned phenomena, CAST-like assessment items, and detailed reports that allow teachers to engage in productive data chats and help district leaders monitor progress on the NGSS. Learn more about the platform: https://youtu.be/bhNkMyEdgcSetup a free pilot: https://explore.innerorbit.com/start-a-pilot-1/

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Inquisitive | K-5 Science .................................... 319
Inquisitive is a comprehensive NGSS-aligned K-5 Science curriculum. It’s engaging, rich, deep and flexible.• Evocative Phenomena• 3-Dimensional Inquiry-based Learning• Hands-on Investigations, with easy accessible materials. No kits!• Built-in Differentiation• Formative and Summative Assessment• Engaging Stimulus (videos, eBooks, interactives, maps, and songs)• A practical scaffold using the 5e Pedagogical Model• 90-day free trial available• All at an affordable price!Available for individual teachers, school, and district-based purchases. Take your students on a journey you’ll both love!

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iSprowt .................................................. T1
Introducing iSprowt - a STEM learning program where learners engage, experiment and get inspired. Aligned around NGSS and Common Core ELA for Kindergarten through 8th grade, these hands-on science kits contain multiple STEM experiments that are proven to increase content retention by up to 80%. Inspire your students’ sense of wonder, exploration, and inquiry. Spark curiosity with common core ELA aligned adventure books packed with exciting phenomena-based science lessons and activities. Engaging workbooks guide students through cross cutting concepts, predicting, modeling and written interpretation. Bring science and reading to life with real world experiments that turn learning moments into Ooohhs, ahhhs, wows… iSprowt’s engaging, hands-on STEM experiments come with simple, easy to implement instructions that can be led by teachers, parent volunteers, or by following along to a pre-recorded teacher-led video. Professional development teacher training is fun and flexible. Highly engaging, live and recorded Zoom calls engage teachers and have them ready to integrate iSprowt quickly and easily. Budgeting for iSprowt falls under Federal and State funding including Title I, Title III, Title IV, Title V and ASES. PTA or donation funds are also commonly used.Inspire the next generation of critical thinking, problem solving explorers, scientists, doctors, entrepreneurs, and engineers. Hands-on learning can potentially boost your science and ELA test scores.

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iSprowt.com
Juliana@iSprowt.com

Jest In Time Educational Programs .............. 224
Creators of the multifaceted video series, “Unboxing Scientists of the World.” A Multi-Cultural exploration of 55 Scientists supported by NGSS Activities, scientists cards, and an “On the Wall Science Time Line covering 2,800 years of innovations. Created with a team of writers, educators, and NGSS specialists this series will inform and entertain students in grades 4-12. The diverse mix of scientists from different cultures will expose students to exciting possibilities for their own futures.

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Jiangxi KMAX Industrial Co., Ltd. (hereinafter referred to as “KMAX”), headquartered in Nanchang, was the host of the World VR Industry Conference and has branches in Beijing and Shenzhen. As a well-known science and technology innovation company in China, KMAX has been committed to the development and production of desktop AIO virtual holographic interactive machines, portable naked-eye 3D terminal equipment and other hardware, career and technical education applications and courses, as well as constant exploration of the creative empowerment and integration path of advanced information technology such as VR to vocational and career training education. KMAX has been rated as China's top VR 50 for four consecutive years, and supports the operations of the National Virtual Simulation Demonstration Training Base, with 3000+ client service cases at home and abroad.

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Knott’s Berry Farm ......................... 109
If Sir Isaac Newton were alive today, we’re pretty sure he would sign off on a physics class field trip to Knott’s Berry Farm. As a renowned scientist credited with many physics principles we follow today, he would know that an innovative – and totally fun – way to demonstrate the science that deals with matter, energy, motion, and force is a modern-day roller coaster. We sure have plenty of those at Knott’s Berry Farm, so bring your students to participate in our specially designed physics educational activities. We’ve collaborated with leading teachers and consultants to develop activities and downloadable packets that can be used as a resource guide or modified to meet your current teaching requirements.

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Knowable Magazine from Annual Reviews .......................... T14
Knowable Magazine is a nonprofit, mission-driven publication that seeks to make scientific knowledge accessible to all. Free to read, republish and share. An editorially independent journalistic endeavor published by Annual Reviews.

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Kognity ........................................ 417
Transform your science classroom into a real-world lab with Kognity. Kognity is an easy-to-use, all-in-one platform delivering flexible, interactive and equitable learning and teaching solutions. Created in collaboration with teachers and NGSS specialists, this flexible teaching framework allows educators to build science lessons where students take an active role in their learning, develop an ability to learn and nurture their curiosity about the world around them.

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gabriella.holm@kognity.com

Lab-Aids ........................................ 216
Lab-Aids provides research-based instructional materials exclusively for middle and high school science. Instructional design and unique equipment bring out student ideas and learning through personal, concrete experiences while issue-oriented science helps students see how science is connected to their lives and communities. Check out the Videos and Documents sections for more about our middle and high school curricula at www.lab-aids.com.

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lab-aids.com
bprocknow@lab-aids.com

Lyricos Learning, LLC ...................... 220
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MiniOne Systems ..................... 310
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miniPCR bio .............................. 404
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minipcr.com
ally@minipcr.com

Mosa Mack Science ...................... 210
It’s a 4-8th grade NGSS resource you can use in class tomorrow. Mysteries that put your students in the driver's seat; collaborative inquiry-based lab activities that enable students to draw their own conclusions; and engineering challenges that challenge your students to use their knowledge to solve real world problems: all in one teacher-friendly resource. Experience Mosa Mack Science in action, see real student work and walk away with free lessons for your classroom.

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National Geographic Learning/Cengage .................. 318
National Geographic Learning, a part of Cengage, is a leading publisher of PreK-12 School educational materials including science, social studies, mathematics, language arts, world languages, career & technical education and advanced, honors, and electives. Through our digital and classroom learning resources, experience the excitement and joy of learning that National Geographic explorers, scientists, writers and photographers experience.

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NCNAAPT/SCAAPT .................. T15
The Northern California/Nevada and Southern California sections of the American Association of Physics Teachers are open to all teachers of Physics from K-12 to the university level. Our bi-annual meetings include workshops and keynotes talks about physics and physics teaching. We offer additional free support for teachers new to teaching physics and networking opportunities for all.

www.NCNAAPT.org www.SCAAPT.org

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New Jersey Center for Teaching and Learning .................. 228
NJCTL is a nonprofit that is providing a simple, scalable solution for our nation’s massive STEM teacher shortage and the great social injustice that comes from depriving underserved students access to STEM education and the important opportunities this learning provides.

Ian Fallstich
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Mahwah, NJ 7430
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ian@njctl.org

NSA .......................................... 311
Fueling Success with Students. Do you impact your school and community with STEM? If you teach K-12, come learn how to apply to win up to a $20,000 prize package through this teacher competition. The Shell Science Lab Regional Challenge Competition recognizes K-12 innovative science educators and their school programs for their exemplary approaches to science lab instruction utilizing limited school and laboratory resources, and raise awareness and exposure of the outstanding work being done in the science education. Energizing yourself applying for the Shell Science Teaching Awards program winning up to $10,000 for yourself and an expense paid trip to NSTA’s national conference in Denver 2024!

Amanda Upton
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aupton@nst.org

Nutrients for Life Foundation ............... 225
Educational, non-profit foundation that provides free science-based information and resources to educators about the vital role of plant nutrients in feeding our world.

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Pali Institute Inc. ......................... 412
At Pali Institute our mission is to introduce experiential education to young people by providing progressive learning experiences that extend far beyond classroom walls. Students will experience the thrill of seeing, touching, and learning about the environment and our impact on the world.

Bridgette Janes
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PASCO Scientific .......................... 326
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Peninsula Clean Energy ................. Sponsor
Providing cleaner energy at lower prices since 2016, Peninsula Clean Energy is the community-led electricity provider for San Mateo County and for the City of Los Banos. We provide clean electricity at lower prices than PG&E and invest proceeds back into the community. As one of California’s Community Choice Aggregation (CCA) organizations, Peninsula Clean Energy has the flexibility and local control to use innovative options in purchasing and generating electricity for residents and businesses. Peninsula Clean Energy’s goals include continuing to provide energy that is 100% clean and that will be 100% renewable by 2025.
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Prescott College ......................... 324
Prescott College is a small but distinct liberal arts college offering undergraduate, graduate, and Ph.D. programs, and uses a bioregional approach to online learning. With a focus on social and environmental justice, Prescott College offers online programs designed to build expertise in environmental education. Programs include our MA in Education with an Emphasis on Environmental Education, MA in Outdoor Education Leadership, MS in Environmental Studies, and Ph.D. in Sustainability Education.
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Sacramento County Office of Education .................. 226
The Sacramento County Office of Education, on behalf of ETS and the California Department of Education, are offering various opportunities for California educators to get involved in the development of the California Assessments of Student Performance and Progress (CAASPP). Educators participate in activities such as item writing, item review, range finding, and data review for the California Science Test (CAST) and the California Alternate Assessments (CAAs) for ELA, mathematics, and science.
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San Jose Clean Energy ..................... Sponsor
SICE: for you, for me, for our future. San José Clean Energy, or SJCE, is San José’s local, not-for-profit electricity supplier operated by the City of San José. Since 2019, we have provided clean energy for residents and businesses at competitive rates, while also offering community programs, local control, and more transparency and accessibility. Our community is at the core of what we do. You’re making a big impact in the fight against climate change just by being our customer. We play a crucial role in meeting San José’s ambitious carbon neutral by 2030 goal and Climate Smart San José, the city’s climate action plan.
Amanda Orozco
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Savvas Learning Company .................. 213
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School Specialty Frey ..................... 119; 121
FOSS® Next Generation®, developed at the Lawrence Hall of Science, is the TK-8 science curriculum that empowers students to think like scientists and engineers. Students actively investigate real-world phenomena using science and engineering practices, disciplinary core ideas, and crosscutting concepts. FOSS provides teachers with the flexible resources they need to teach science in various learning environments with new tools to further support phenomena-based teaching and ELD instruction. FOSS is proven to engage and excite all learners, regardless of prior knowledge, language, or background.
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Greenville, WI 54942
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Nicole.gorges@schoolspecialty.com

School Specialty Foss ..................... 117
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**Society for Science** ........................................ 524
Founded as Science Service in 1921, the Society for Science has been dedicated to expanding scientific literacy, access to STEM education and scientific research for more than 100 years. As a nonprofit 501(c)(3) membership organization, our mission promotes the understanding and appreciation of science and the vital role it plays in human advancement: to inform, educate, and inspire. We are best known for our award-winning magazine, Science News, our world class science research competitions and our outreach and equity STEM Programs making sure that every young person can strive to become an engineer or scientist. Thanks to guidance from our Board of Trustees, Honorary Board and National Leadership Council we continue to achieve our mission through our magazines, competitions and programs.

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**Southern California Association of Science Specialists** ................ T8
The mission of the Southern Association of Science Specialists shall be to: (1) promote the professional competence, status, recognition, and support of science education leaders, specialists, and supervisors; (2) further public support of science education and improvements in its scientific content and use of effective pedagogical strategies; (3) support excellence in science education, especially at the K-12 levels; (4) encourage the scientific and technological literacy among the general population.

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William Albert  
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STEP UP 7
STEP UP is a national community of physics teachers, researchers, and professional societies. We design high school physics lessons to empower teachers, create cultural change, and inspire young women to pursue physics in college.

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Switch Energy Alliance 11
Switch Classroom is empowering energy literacy for middle and high school science teachers and students. This comprehensive, nonpartisan, and free energy education resource equips educators with the knowledge and tools to engage students in the critical world of energy. With interactive resources, engaging activities, and ready-to-use lesson plans, Switch Classroom seamlessly integrates high-quality energy education into classrooms without impacting budgets. Revolutionize your teaching and inspire a new generation of informed global citizens with Switch Classroom.

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TCI 11
TCI is an award-winning online K-8 science and K-12 social studies publishing company created by teachers, for teachers. For more than 30 years, the company has partnered with the education community to fundamentally change classroom instruction. TCI’s K-8 science programs are based on proven teaching strategies and practices that bring learning alive and achieve consistent, positive classroom results. TCI believes the best education marries great content, meaningful technology, and interactive classroom experiences. More than 2.5 million students in 7000 school districts around the country achieve and succeed with TCI.

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TeachKind Science 526
TeachKind is the humane education division of People for the Ethical Treatment of Animals (PETA). We are former classroom teachers helping schools, educators, and parents promote compassion for animals through free lessons, virtual classroom presentations, materials, advice, online resources, and more. Please visit us to learn how TeachKind’s resources support the principles of social-emotional learning and help build empathy for all.

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Vernier Science Education 313
Vernier Science Education is committed to partnering with educators to build a STEM-literate society where students become knowledgeable citizens who can solve problems and drive innovation. We create the best and most reliable solutions for STEM education. Our comprehensive solutions include hardware, software, content, assessment, professional development, and technical support.

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Toshiba/NSTA ExploraVision 427
NSTA publishes 4 monthly journals and more than 25 books per year to support science education for grades K-College.

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UC Davis Young Scholars Program 11
The UC Davis Young Scholars Program is a summer residential research program designed to expose approximately 40 high-achieving high school students to the world of original research within the fields of the biological, agricultural, environmental and natural sciences. Participants in the UC Davis Young Scholars Program work one-on-one with research faculty and research groups in state-of-the-art laboratories for six weeks. Each student will work on an individual project and prepare a journal-quality paper and symposium presentation about their work.

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Young Scholars Program work one-on-one with research faculty and research groups in state-of-the-art laboratories for six weeks. Each student will work on an individual project and prepare a journal-quality paper and symposium presentation about their work.

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Wards Science ………………………… 125
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Western Science Center Building 2 ……… 227
The Western Science Center is the Inland Empire’s premiere natural history museum, showcasing fossils and artifacts from the local region and beyond. The museum’s team of award-winning educators will be available at our CSTA booth to walk visitors through our variety of educational programming, and our popular line of Ice Age mammal plushies will be on sale during the conference.

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Win Elements LLC …………………… 308
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Innovations for Rigor and Equity: Integrated Science Pathways Supporting UC, IB and AP

4:00 – 5:15 pm (Catalina)
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