Next Generation Science Standards Conference
(Grades K-6)

Anaheim, CA • February 25 and 26
Seattle (Bellevue), WA • February 27 and 28

WA STEM Clock Hours Available

CEUs and Graduate Credits Available, please see page 7 for details

Choose from 21 Highly Practical NGSS Sessions

Hands-On Options • Teacher Resources • Hundreds of Practical Strategies
Meet Your Team of Expert Instructors

JAIME BAILEY is an outstanding Next Generation Science Standards presenter and a highly experienced grades K-6 teacher and instructional coach. Her objective in every session is to provide hands-on, ready-to-use strategies and tools that can be used immediately in K-6 schools. Jaime is noted for the practicality of her presentations and her focus on what works best for teachers. You will find her sessions filled with strategies, resources and a wealth of information that will boost your approach to implementing the Next Generation Science Standards.

BRAD FULTON is a highly experienced grades K-6 science teacher, coach, national speaker, and expert on the NGSS. Brad is excited to share his practical and student-proven projects, ideas and strategies for incorporating the Next Generation Science Standards into your instruction. His sessions are all hands-on and fast-paced where you will gain dozens of ideas you can use immediately!

LIZ MIRRA is a math and science instructional coach and NGSS teacher with more than 17 years of experience. As a science teacher, she has had great success boosting students’ motivation and achievement in her science classes. She will share dozens of practical science strategies designed specifically for grades K-6 – all student-proven and teacher-friendly. Liz’s sessions are filled with practical, creative strategies perfect for helping your students learn and apply the Next Generation Science Standards.

Who Should Attend
Educators Who Teach Science in Grades K-6: Classroom Teachers, Department Heads, Science Specialists, and Administrators

What participants are saying …
“Interactive, Hands-On NGSS Launch!” – Jaime Bailey
Join outstanding, inspirational teacher and speaker, Jaime Bailey, for a hands-on science project to launch your two days of learning! You will learn and experience what gets students excited about the NGSS and how you can make it happen in your own classroom. Leave with a new project along with a framework you can use to plan all of your NGSS lessons – short and long term. Discover how the NGSS will bring new life to teaching for you and new life to learning for your students!

MORNING SESSIONS • 9:15 – 11:50 am

Choose ONE Full Morning Session OR TWO 70-Minute Sessions
One mid-morning break

A-1: Using Phenomena and Real-World Problems to Jumpstart Your NGSS Instruction
– Liz Mirra
Students in grades K-6 are naturally curious about how the world around them works. We can intentionally design instruction to capitalize on this curiosity in ways that maximize learning. This session will explore how to begin units with an anchoring phenomenon or relevant engineering problem and then how to design the instruction to follow. Ideas you can use to jumpstart your own NGSS lessons!

A-2: Practical Strategies to Monitor Student Progress in the NGSS
– Jaime Bailey
What are easy and practical ways to monitor student progress along the NGSS journey? Come and learn how you can give students the feedback they need without taking up a ton of time. Ideas to quickly and efficiently gather data about your students’ skills and understanding along with what steps to take next to increase learning.

– Brad Fulton
What is heat? How does it differ from temperature? How do we measure these intangibles? This simple yet engaging exploration helps students understand the concepts of energy involved in heat and temperatures as well as developing the NGSS skills of investigation and drawing conclusions. A perfect unit to jumpstart your NGSS instruction!

A-4: Developing and Using Models in Your K-6 NGSS Classroom
– Jaime Bailey
Developing explanatory models is one of the eight practices outlined in the NGSS. This session will explore how to teach and support your students as they progress from concrete pictures to more abstract representations of why phenomena occurs. Help your students visually represent their scientific thinking through models.

A-5: Mixing Math, Physics and More in Your NGSS Instruction – Brad Fulton
Join Brad in this exciting lab that will get students engaged in math and physics! Learn how to help students design parachutes and modify their models to maximize effectiveness. Measurement of time, area and weight can be integrated with design and graphing in this fun engineering task that will have your most reluctant learners eagerly participating!

Lunch break on your own • 11:50 am – 1:05 pm (A great time to network with colleagues!)

Team Discount
ONE DAY
One Person: $269
BOTH DAYS
One person: $449
Team of 3+: $429 per person when enrolled at the same time

“Lots of hands-on, practical ways to implement new science practices!”
Can’t Attend?  
Online Professional Development Option:

A related On Demand Video-Based Online Learning Course, *Practical Strategies for Using Project-Based Learning to Enhance Your STEM Instruction*, for Grades K-8, is available for immediate registration. To enroll, visit www.ber.org/onlinelearning.
Day Two

MORNING SESSIONS • 8:30 – 11:15 am

Choose ONE Full Morning Session OR TWO 75-Minute Sessions

One mid-morning break

Full Morning Session • 8:30 – 11:15 am

C-1: Practical Strategies to Get Your K-6 Students Using Science Content Critically: Obtaining, Evaluating and Communicating – Jaime Bailey

Part of the NGSS is to get students engaged at higher levels in science content. Join Jaime for a session devoted to teaching students to obtain and gather content, analyze it and communicate to others in a variety of ways. You will leave with practical practices and strategies to help your students think more deeply and critically about your science topics.

Choosing ONE: C-2 or C-3

C-2: “Hands-On” NGSS Science and Engineering Project – Brad Fulton

In this engrossing anatomy unit, students can create a working model of the hand complete with moving parts. They will discover the growing field of prosthetics engineering as they work to maximize the model hand’s effectiveness for real-life daily tasks. Address NGSS practices.

C-3: Developing Assessments for the NGSS in Grades K-6 – Liz Mirra

Better understand the critical components of the three-dimensional assessments and get quality examples that are aligned with the NGSS. Discover where to get the newest and best resources to help you develop high-quality assessment tasks.

Choosing ONE: C-4 or C-5

C-4: What Just Happened? Fostering Scientific Thinking through Discrepant Events – Brad Fulton

Your students will learn how to be keen-eyed scientists in this amazing lab! How you can teach students to make and evaluate their observations and conclusions while learning how to attend to detail. This fun, hands-on activity can set the foundation for all your future explorations in NGSS labs.

C-5: Next Generation Science Standards Strategies for Grades K-2 – Liz Mirra

Explore and receive activities perfect for grades K-2 that align to the NGSS. Learn how the conceptual shifts will impact your instruction and gain specific strategies you will be able to use immediately.

11:15 am – 12:30 pm • Lunch Break (on your own)

On-Site Training

Conferences like this one along with many other topics can be brought to your school or district. Please view all of our On-Site PD options at www.ber.org/onsite or call 877-857-8964 to speak with an On-Site PD Consultant.

“Motivating! I feel re-energized to help my students become empowered learners.”

– Amanda Lewis, Teacher

… “Innovative” “Useful” “Engaging” “Hands-on” …
Day Two

AFTERNOON SESSIONS • 12:30 – 3:10 pm

Choose TWO 75-Minute Afternoon Sessions • One mid-afternoon break

First 75–Minute Afternoon Sessions
12:30 – 1:45 pm

**CHOOSE ONE: D-1, D-2 or D-3**

**D-1: Structuring Student Collaboration for NGSS Success!**

– Jaime Bailey

A NGSS classroom means students are doing the talking and the working! As teachers, we need to step out of the way and let students solve their problems together. Learn how to scaffold learners to work together to find answers, solve problems and access materials. This session will focus on choreographing your classroom to help students work more successfully as teams.

**D-2: Next Generation Science Standards Strategies for Grades 3-6**

– Liz Mirra

Learn how the conceptual shifts in the NGSS will impact your instruction and gain specific strategies you will be able to use immediately. Explore ideas and activities perfect for grades 3-6 that align to the NGSS.

**D-3: Practical Strategies for Meeting the NGSS Practices: Sounds Like Fun!**

– Brad Fulton

Easy and fun ways to teach the science of sound while applying engineering skills to create different models – a harmonica, oboe, bagpipe, and telephone. Taking it a step further, learn how to help students extend their learning and conquer new challenges to test their engineering and creativity.

Second 75–Minute Afternoon Sessions
1:55 – 3:10 pm

**CHOOSE ONE: D-4, D-5 or D-6**

**D-4: What a K-6 NGSS-Aligned Classroom Looks Like: Observing and Coaching Science Instruction**

– Liz Mirra

A classroom that is truly aligned to the NGSS looks very different from traditional science teaching. Discover the key components that need to be present in a classroom that is transitioning to the NGSS and how to help teachers find greater success.

**D-5: Fun and Easy Ways to Gather and Use Data in Your K-6 NGSS Instruction**

– Jaime Bailey

We’ve been teaching data and patterns in math for years. Take it to the next level in your science instruction by using these practical and easy strategies to help students learn new ways to analyze and interpret data to determine patterns and relationships. Learn numerous ideas for gathering, graphing, sorting and most importantly, make accurate evidence-based explanations.

**D-6: Getting Students Past the Fear of Failure: Strategies to Develop Grit and Perseverance (Grades 3-6)**

– Brad Fulton

Do your students suffer from Fear of Failure-itis? Are they plagued by Risk Aversion Syndrome? Are they victims of Frustration Paralysis? Help is on the way! Learn how to turn failure around from a negative to a positive in this intriguing engineering challenge that will teach your students to persevere when the going gets tough!

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**ANAHEIM** offers a diverse array of entertainment and sightseeing opportunities, including Anaheim’s GardenWalk, Angel Stadium, and Disneyland Resort.

**Conference Location and Overnight Accommodations:**

Red Lion
(714) 750-2801

Call Reservations at (714) 620-1561 and mention you are attending this BER conference prior to January 28, 2019 to receive the special rate of $99 (Single/Double), rates subject to availability.

**SEATTLE** offers a great variety of area attractions and sightseeing for visitors, including the Space Needle, Pike Place Market, Pioneer Square Historic District, and Safeco Field.

**Conference Location and Overnight Accommodations:**

Hilton – Bellevue
(425) 455-1300

Mention you are attending this BER conference prior to January 27, 2019 to receive the special rate of $169 (Single/Double), rates subject to availability.
Earn One to Four Graduate Semester Credits

Up to four graduate level professional development credits are available with an additional fee and completion of follow-up practicum activities. Details will be available at this program.

Meet Inservice Requirements

Participants will receive a certificate of participation that may be used to verify continuing education hours.

CEUs Available:

California
NV Contact Hours Verification Available for Renewal Credit with Prior District Approval

Washington
WA STEM Clock Hours Available; ID Inservice Credit Available with District Approval

FOUR EASY WAYS TO REGISTER:

PHONE toll-free: 1-800-735-3503
(Weekdays 6 am - 6 pm Pacific Time)

FAX this form to: 1-425-453-1134

REGISTER ONLINE at: www.ber.org

MAIL this form to:
Bureau of Education & Research
915 118th Avenue SE * PO Box 96068
Bellevue, WA 98009-9668

Cancellation/Substitutions:

100% of your paid registration fee will be refunded if you can’t attend and notify us at least 10 days before the conference. Late cancellations will be refunded less a $15 service fee. Substitutions may be made at any time without charge.

Program Guarantee

We stand behind the high quality of our programs by providing the following unconditional guarantee: If you are not satisfied with this program, we’ll give you a 100% refund of your registration fee.
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