STEM Conference
(Grades K-6)

Boston (Wakefield), MA • March 11 and 12
Columbus (Dublin), OH • March 13 and 14

CEUs and Graduate Credits Available

Choose from 21 Highly Practical STEM Sessions

Hands-On Options • STEM Teacher Resources • Hundreds of Practical Strategies
In a word: What participants say...

Meet Your Team of Expert STEM Instructors

JAIME BAILEY is an outstanding presenter and a superb STEM teacher. 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 humor, fun and a wealth of information that will boost your approach to teaching science, technology, engineering, and mathematics.

BRAD FULTON is a highly experienced STEM teacher, STEM coach and national speaker. Brad is excited to share his practical and student-proven projects, ideas and strategies for greatly enhancing your STEM instruction. His sessions are all hands-on and fast-paced where you will gain dozens of ideas you can use immediately! Join Brad to discover how you can more successfully implement STEM instruction and watch your students increase their achievement, motivation and problem-solving skills in grades K-6!

JEFF STENROOS is an outstanding, experienced elementary teacher, STEM leader, and national presenter. He is well-known for his fun, highly practical and engaging sessions that are chock full of STEM ideas that teachers can use immediately. All of his STEM strategies come straight from his work in classrooms and are student proven, easy to use and can be adapted to fit any classroom. His sessions are energetic, fast paced, dynamic, and interactive!

Who Should Attend
Educators working with grades K-6 students
Day One

Keynote • 8:30 – 9:05 am

STEM! #whyiteach – Jeff Stenroos

Join outstanding and inspirational speaker, teacher and STEM leader, Jeff Stenroos, for an exciting keynote to kick off this STEM Conference for grades K-6! As a teacher, you are a leader. You impact the lives of more people than you might realize. What makes you special? Teachers have a passion and a calling to the profession. You have the spark that brings life to learning for students. Discover how STEM can bring new life to teaching for you and new life to learning for your students! Join Jeff in celebrating the reasons we are teachers and how we positively impact the lives of our students in our classrooms and beyond!

MORNING SESSIONS • 9:15 – 11:50 am

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

Full Morning Session • 9:15 – 11:50 am

A-1: WOW Factor! Low- to No-Cost STEM Demonstrations for Grades K-6 – Jeff Stenroos
Captivating, low- to no-cost demonstrations, lessons and projects that will get you and your students excited about STEM! Hooks that will engage your students and enhance STEM skills of observation and questioning. This will be an interactive, hands-on session providing you with ready-to-use ideas to enhance or develop your own STEM instruction.

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

…”Engaging” “Hands-On” “Refreshing” “Practical” …
Can’t Attend? Another Professional Development Option:

Related Online Course
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 One

AFTERNOON SESSIONS • 1:05 – 3:35 pm

Choose ONE Full Afternoon Session OR TWO 70-Minute Sessions
One mid-afternoon break

Full Afternoon Session • 1:05 – 3:35 pm

B-1: Practical Strategies to Strengthen the MATH in Your STEM Instruction! – Brad Fulton
In this engaging and interactive session, you will learn how you can better integrate math skills and concepts in more meaningful and challenging ways for your students. Using your math standards along with the Next Generation Science Standards, we can create powerful STEM units. See how it all fits together through a hands-on lab investigation that you will be able to adapt and use in your own classroom!

First 70–Minute Afternoon Sessions
1:05 – 2:15 pm

CHOOSE ONE: B-2 or B-3

What are practical ways to monitor student progress as they work through STEM projects? Discover a variety of different strategies to give students feedback without taking up a ton of your time. Learn how to quickly and efficiently gather data about students’ skills and understanding to take informed next steps. Formative assessment strategies to give you the information you need while challenging students to take their learning further will be shared.

B-3: Physical Science as a Gateway to Grades K-6 STEM – Jeff Stenroos
Our students know about the world around them but do they really understand the “how” and “why” things happen? Blend the knowledge they have about the physical world and pair it with their natural curiosity to spark STEM learning. Learn how to use demonstrations, questioning and student-based activities to build your STEM classroom.

Second 70–Minute Afternoon Sessions
2:25 – 3:35 pm

CHOOSE ONE: B-4 or B-5

B-4: STEM on a Shoestring Budget: Low- and No-Cost STEM Solutions – Jaime Bailey
Looking for easy, inexpensive materials you can use in your STEM labs? Join Jaime for a session that will cover labs that can be done by reusing and repurposing materials easily found in your school and community. With some basic items, you can do a ton of different STEM labs! Develop low-cost or no-cost activities for your students!

B-5: Stories to STEM: Using Literature to Jumpstart K-6 STEM Instruction – Jeff Stenroos
Leave this session with a list of the best books to inspire interest and start STEM investigations. Discover how quality books easily lend themselves to STEM instruction and allow you to connect literacy skills to STEM while integrating reading comprehension, science and math.

Who is BER?
The Bureau of Education & Research is North America’s leading presenter of seminar training for professional educators. Our goal is to provide high-quality PD programs, based on sound research, with an emphasis on practical strategies and techniques that can be immediately implemented.

Online Learning
BER offers educators a wide range of online courses that are affordable, fun, fast, and convenient. BER is now offering On Demand Video-Based courses. You may earn optional graduate-level credits for most courses. See the catalog of available courses at www.ber.org/onlinelearning

… “Relevant” “Thought-provoking” “Effective” “Inspiring” …
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: Strategies to Integrate Critical Reading and Writing Skills into STEM Instruction
– Jaime Bailey
Significantly strengthen your STEM instruction by integrating reading and writing opportunities. Help your students become better readers, listeners and critical users of informational text and video as they apply it to their STEM work. Access and customize free resources using Symbaloo to help differentiate content for K-6 students. Your students will start thinking more carefully and deeply about STEM topics through planned reading and writing activities.

CHOOSE ONE: C-2 or C-3

C-2: Perfect STEM Lessons for Grades K-2! – Jeff Stenroos
Getting our youngest students engaged in STEM is the key to developing lifelong interests in STEM. Tap into the natural curiosity of K-2 students with a variety of ready-to-use activities and projects that are easy to get started and touch all the elements of quality STEM instruction.

C-3: Engaging Electricity Explorations for STEM Classrooms – Brad Fulton
Students love learning about electricity! In this interactive session, you will explore how to help your students learn about circuits, resistance, polarity, and more. Perfect for all K-6 classrooms, these labs use simple, safe and inexpensive materials to understand the principles of electricity – all through active involvement!

CHOOSE ONE: C-4 or C-5

C-4: Using Inquiry-Based Learning to Activate and Accelerate Student Achievement in STEM – Jeff Stenroos
Discover how to shift your current lessons to take students from direct science instruction to student-directed learning. Help your students develop their own ideas and guide them to meaningful problem-solving projects. Practical strategies that really work!

C-5: Mixing Math, Physics and More in an Engaging STEM Project – 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!

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

… “Insightful” “Motivating” “Interactive” “Creative” …
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: Designing Catapults: 3-2-1 Launch!
– Brad Fulton
In this fun and captivating engineering challenge, learn how to teach your students to design their own catapult to launch an object as far as possible. Teamwork, engineering, design, testing, and evaluation will all be addressed in this creative approach to a popular STEM activity.

D-2: Simple STEM Projects You Can Do Now – At Any Level
– Jeff Stenroos
Discover projects that use easy-to-find, low- to no-cost items to create STEM projects for your classroom. These simple projects can help kickstart your STEM learning environment and allow you to develop your STEM classroom. Learn guided lessons that bring out the budding engineers and their problem-solving strategies.

D-3: Structuring Student Collaboration for STEM Success!
– Jaime Bailey
A STEM 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. We can teach students to support each other as they keep their project moving. This session will focus on choreographing your classroom to help students work more successfully as teams.

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

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

D-4: Practical Strategies to Get Your K-6 Students and Staff Excited About the Science Fair!
– Jeff Stenroos
Having trouble getting students and teachers excited about the next science fair? Join Jeff and learn effective ways to help students conceptualize projects from simple investigations to more in-depth, ongoing projects that fit perfectly with STEM.

D-5: 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!

D-6: Practical Strategies to Strengthen the ‘E’ in Your STEM Projects
– Jaime Bailey
Engineering can be the most engaging part of the STEM process – but how do we help students go through the creative design process to strengthen their engineering skills? Learn the steps including material testing and rapid idea generation to get your students thinking like engineers!
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:

Massachusetts
- MA Contact Hours Verification Available
- CT Five (5) Contact Hours Per Day Available with Prior District Approval
- 5 ME Contact Hours for Each Day of Attendance Available with Prior Approval from your Local Certification Support System
- NH Clock Hours Verification Available
- RI Five (5) Contact Hours Per Day Available
- VT Inservice Credit Available with Prior District Approval

Ohio
- OH CEUs Available with District Approval
- IN Verification of Attendance Available
- KY Professional Development Verification Available
- PA CPE Hours Verification Available with Prior District Approval
- WV PDCs Available with Prior District Approval

FIVE 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

EMAIL: info@ber.org

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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