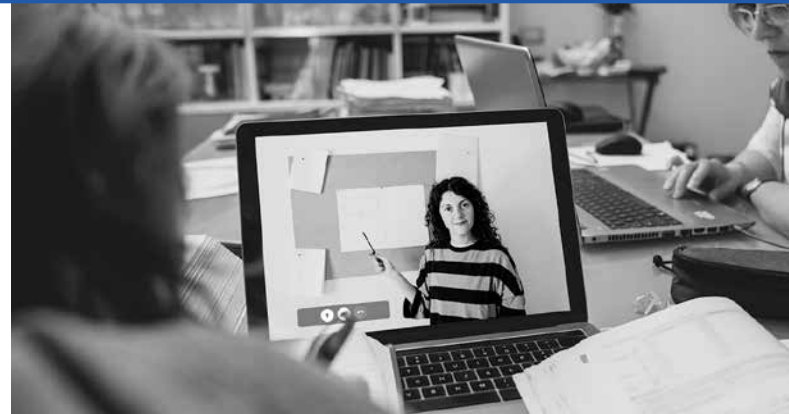


# Help Your Students Master the ***NEXT GENERATION SCIENCE STANDARDS:*** Practical Strategies and the Best, New Tools (Grades 6-12)



A Unique, One-Day, Live Online Seminar Presented by

**Elizabeth Mirra**

Outstanding Science Educator and National Presenter

**Specifically Designed for Educators Who Teach Science in Grades 6-12:  
Classroom Teachers, Department Heads, Science Specialists,  
and Administrators**

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**Highly engaging techniques and tools** to more effectively incorporate the *Next Generation Science Standards (NGSS)* into your science instruction ... **Proven ideas for in-person and distance learning teaching environments**

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**Powerful strategies** to increase student engagement and learning of the *NGSS* core ideas

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**Gain proven, effective tips and tools** that will challenge your students with problem solving and inquiry-based learning

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Receive an **extensive science digital resource handbook** filled with dozens of valuable strategies and tips to help your students master the *NGSS*

## Live Online Seminars

### November 10

**9 AM Eastern**, 8 AM Central,  
7 AM Mountain, 6 AM Pacific

### November 12

**9 AM Central**, 10 AM Eastern,  
8 AM Mountain, 7 AM Pacific

### November 13

**9 AM Pacific**, 12 PM Eastern,  
11 AM Central, 10 AM Mountain

### CAN'T ATTEND?

Order the recorded version and take the seminar online at your convenience (see page 6)

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CEUs and Graduate Credit Available  
See page 6 for details

# Ten Key Benefits of Attending

'Liz is very well educated on NGSS and all of the ideas had examples, so it's easy to implement. I feel confident to teach the rest of my department.'

— MELISSA JENSEN, TEACHER



## Who Should Attend

Educators who teach science in Grades 6-12:  
Classroom Teachers,  
Department Heads,  
Science Specialists,  
and Administrators

### 1. More Effectively Implement the *Next Generation Science Standards* in Your Science Classroom

Learn from an enthusiastic secondary science educator and national presenter about the essential steps to integrate the new standards' rigorous three dimensions into your current curriculum and instruction ... ***Ideas for in-person, online and hybrid learning environments***

### 2. Make Your Science Classroom More Student-Centered for In-Person, Online and Hybrid Instruction

Learn researched-based methods to maximize student achievement in any learning environments

### 3. Increase Student Motivation in Learning the *Next Generation Science Standards*

Discover proven ways to actively engage students in dozens of highly motivating activities designed to engage all types of learners

### 4. Discover the REAL Meaning of Modeling in the *Next Generation Science Standards*

Explore modeling as a powerful tool for unlocking student thinking and monitoring conceptual change

### 5. Engage Your Students in Activities that Support Collaboration and Argumentation

Learn to enhance student achievement through proven strategies that promote sense-making, collaboration and argumentation

### 6. Boost Student Inquiry and Research Skills In-Class and Online

Discover ways to foster inquiry-based learning to make science come alive ... Help students develop the critical thinking and problem-solving skills emphasized in the NGSS

### 7. Significantly Improve Student Learning and Retention of Challenging Science Concepts

Unlock the power of the science and engineering practices and crosscutting concepts to enable your students to succeed with consistently impressive results

### 8. Utilize Innovative Methods to Seamlessly Integrate Science and Engineering

Use proven techniques for incorporating engineering into your science instruction and improve student engagement and achievement

### 9. Expand and Energize Your Methods to Incorporate Reading, Writing and Math into Your Science Classrooms

Learn how to use reading, writing and math to enhance student understanding of scientific phenomena and address your state standards

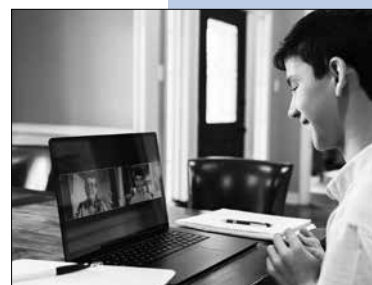
### 10. Receive an Extensive Science Resource Handbook Focused on Learning the *Next Generation Science Standards*

Each participant will receive an extensive resource handbook filled with practical ideas, tips and tools for helping your grades 6-12 science students master the NGSS skills and concepts whether you're teaching at school or online

# Outstanding Strategies You Can Use Immediately

## What You Will Learn ...

- **A clear understanding of what is encompassed** in the *Next Generation Science Standards* ... **Proven ideas for in-person and distance learning environments**
- **Practical techniques** to more effectively incorporate the *NGSS* into your own secondary science classroom
- **Powerful strategies** to focus student learning on the core skills and concepts of the *NGSS*
- **Proven ways to significantly increase student motivation** in learning science
- **Innovative ways to ensure that students consistently retain and build** on the core ideas of the new standards
- **Practical examples** of how to develop instructional strategies that help students develop the critical thinking and problem-solving skills necessary for engineering
- **Strengthen student understanding** of complex science phenomena using the crosscutting concepts
- **Proven methods** to immerse students in real-world science scenarios to increase motivation and learning and incorporate the science and engineering practices
- **How to provide multiple opportunities** for your students to practice and master the *NGSS* skills and concepts



*"Liz made the New Generation Science Standards understandable and entertaining: the new activities encouraged collaboration and interaction, all as we learned and experienced the ropes of NGSS. Well done!"*

— MARIA GONZALEZ, SCIENCE TEACHER

## Practical Ideas and Strategies

In this highly engaging, interactive seminar, you will learn a wealth of effective ways to help your students master the rigorous science and engineering practices, disciplinary core ideas and crosscutting concepts incorporated in the *Next Generation Science Standards*. Beginning with developing a deeper understanding of the ambitious vision of the new standards, you will discover clear pathways for blending the *NGSS* into your current science instruction.

Throughout the day, **Elizabeth Mirra**, an experienced, award-winning secondary science teacher, will show you how to integrate the three dimensions of the *NGSS* into engaging instructional sequences that will motivate students and maximize their learning of the new standards. You will receive a wealth of innovative ideas for including engineering, reading, writing, and math in your science instruction that will enhance your students' ability to master the essential skills and concepts included in the *NGSS*.

During this fast-paced seminar, the emphasis will be placed on practical strategies to incorporate the new science standards in your instruction in ways that fully involve students and increase their enthusiasm for learning. ***Come and discover the best, new ways to foster continuous improvement in your students' mastery of the new NGSS—and see the significant difference it will make in their achievement in science!***



# A Message From Your Seminar Leader, Elizabeth Mirra



## Uniquely Qualified Instructor

**ELIZABETH MIRRA** is a math and science instructional coach and a middle and high school science educator with more than 17 years of experience. As a science teacher, she had remarkable success boosting students' motivation and achievement in her science classes. She was involved in reviewing and providing feedback on the *Next Generation Science Standards* throughout their development and has worked with numerous school districts providing professional development on best science practices and assistance with aligning curriculum to the new standards. Elizabeth is the recipient of the prestigious President's Award for Excellence in Science Teaching and is the author of *Help Your Students Master the NEXT GENERATION SCIENCE STANDARDS: Practical Strategies and the Best, New Tools (Grades 6-12)*, the extensive resource handbook each participant will receive at the seminar. Spending the day with Elizabeth is a rich opportunity filled with practical, creative strategies perfect for helping your students master the *Next Generation Science Standards*.

Dear Colleague:

I look forward to welcoming you for a day that will be filled with a wealth of outstanding, practical take-right-back-to-your-classroom strategies you can use to significantly increase student motivation and achievement in your science classes. Specifically designed for science educators in grades 6-12, our day will focus on highly effective tools and techniques to successfully master the *Next Generation Science Standards*.

Starting with the vision of the new standards, I will share highly effective ways to seamlessly integrate the science and engineering practices, crosscutting concepts and disciplinary core ideas into effective and engaging instructional sequences. I will share innovative techniques for creating a dynamic, student-centered classroom where students collaborate to make sense of real-world scientific phenomena. Your classroom will become a more efficient and effective learning environment where critical thinking, hands-on science and project-based learning lead to increased student mastery of the NGSS.

I invite you to join me for this valuable experience that will inspire and motivate you to return to your classroom and immediately implement the resources and cutting-edge instructional techniques I will share at this seminar. To help support this experience, you will be provided with an extensive resource handbook that includes the resources shared during the seminar. I will respect your time by only sharing the best resources and strategies to help your students master the new standards. ***Whether you are teaching in-person, completely online or in a hybrid learning environment you'll leave with numerous ideas, strategies and resources you be able to use immediately.***

Sincerely,

Elizabeth Mirra

P.S. As an experienced secondary teacher, I understand the extra effort it takes to be out of the classroom. I promise you that our day together will be worth your time and that you will leave with dozens of **ready-to-use, practical ideas and strategies you can implement immediately in your science classrooms.**

*"Specifically designed for science educators in grades 6-12, our day will focus on highly effective tools and techniques to successfully master the Next Generation Science Standards."*

# What Your Colleagues Say About Elizabeth Mirra

*"This is **the first seminar I have attended that finally pulled the NGSS together, making them realistic and feasible to implement in the classroom.**"* Judy Crull, Science Teacher

*"Liz is **fantastic and incredibly engaging.**"* Tamara Barfield, Science Teacher

*"We were not just given concepts, **we were given the strategies on how to implement many of these concepts.**"* Patricia Ramsawak, Earth Science High School Teacher

*"Liz presents **good, practical content on the NGSS.**"* Amandeep Singh, Science Teacher

*"I enjoyed the day. Liz is engaging and I'm leaving with **practical, easy-to-implement tools for my classroom.**"* Dawn Giovanetto, High School Science Teacher



## About BER Live Online Seminars

**With the current health challenges, all BER in-person PD events are currently being presented in a Live Online format:**

### **Outstanding Instructors**

All programs are led by outstanding BER national trainers

### **Extensive Resource Handbooks**

You'll have access to an extensive digital Resource Handbook before, during and after your seminar

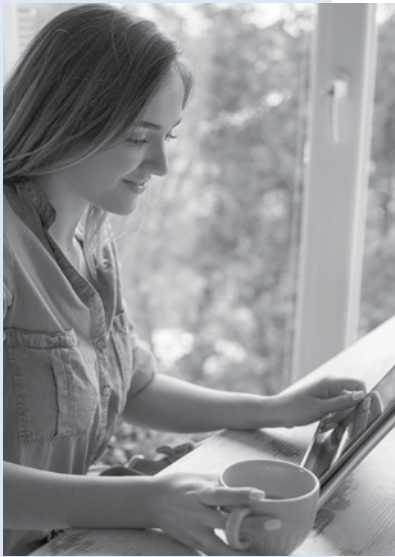
### **Highly Interactive**

You'll be able to ask questions in real time and interact with the instructor and other participants

### **Program Guarantee**

As we have for 43 years, we guarantee the high quality of our programs. If you are not satisfied, we'll give you a 100% refund.

# Special Benefits of Attending



*'I left with resources and ideas that I will absolutely use in my classroom.'*

– CANDACE BARICH,  
SCIENCE TEACHER.

## On-Site Training

Most BER seminars can be brought to your school or district in-person or online. See the options at [www.ber.org/onsite](http://www.ber.org/onsite) or call 877-857-8964 to speak to one of our On-Site Training Consultants.

## You'll Receive an Extensive NGSS Digital Resource Handbook

Each seminar participant will receive an extensive NGSS digital resource handbook specifically designed for this seminar. Included in the handbook is:

- Practical ideas for helping your students meet rigorous science content and practice standards, including those aligned with the *Next Generation Science Standards* whether you're teaching at school or online
- Powerful strategies to increase student engagement and retention of core ideas from the new standards
- Innovative ideas for integrating the science and engineering practices and crosscutting concepts into your science instruction
- Proven step-by-step techniques for planning engaging instructional sequences aligned to the NGSS
- Outstanding ideas for incorporating engineering into your science instruction
- Creative ways to integrate reading, writing and math into your science instruction

## Consultation Available

Elizabeth Mirra will be available at the seminar for consultation regarding your questions and the unique needs of your own science programs.

## Meet Inservice Requirements / Earn State CEUs

Participants of both the Live Online Seminar and those completing the Recorded Version online can receive a certificate of participation that may be used to verify five continuing education hours. In addition, state CEUs are available for both versions of the course. For details, visit [www.ber.org/ceus](http://www.ber.org/ceus)

## 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 for direct enrollment with Brandman University, part of the Chapman University system, will be available at this program.

## Can't Attend?

### Other Professional Development Options:



#### Recorded Version of the Seminar

This course will be video recorded and available to take online at your convenience. You'll have access to the entire course and to the extensive digital resource handbook. Optional CEUs and graduate credit available.

To enroll, see registration form on page 7.



#### Related On-Demand Online Courses

A related On Demand Video-Based Online Learning course, *Help Your Students Master the Next Generation Science Standards: Practical Strategies and the Best, New Tools*, for Grades 6-12, is available for immediate registration.

To enroll, visit [www.ber.org/online](http://www.ber.org/online)

# Help Your Students Master the *NEXT GENERATION SCIENCE STANDARDS:* Practical Strategies and the Best, New Tools (Grades 6-12)

## Registration (CNM1F1)

1. **November 10, 2020** (Start time: 9 AM Eastern)
2. **November 12, 2020** (Start time: 9 AM Central)
3. **November 13, 2020** (Start time: 9 AM Pacific)  
— or —
4. **I'd like to order the recorded version of this seminar**

FIRST NAME \_\_\_\_\_ M.I. \_\_\_\_\_ LAST NAME \_\_\_\_\_

POSITION, SUBJECT TAUGHT \_\_\_\_\_ GRADE LEVEL \_\_\_\_\_

SEMINAR NUMBER: \_\_\_\_\_ (Please see list above)

*List additional registrants on a copy of this form*

SCHOOL NAME \_\_\_\_\_

SCHOOL MAILING ADDRESS \_\_\_\_\_

CITY & STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

SCHOOL PHONE NUMBER \_\_\_\_\_ HOME PHONE NUMBER \_\_\_\_\_

( ) ( )

**Registration confirmations and login details are sent via e-mail**

E-MAIL ADDRESS (REQUIRED FOR EACH REGISTRANT) \_\_\_\_\_

HOME MAILING ADDRESS \_\_\_\_\_

CITY & STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

**IMPORTANT: PRIORITY ID CODE: ECNM1F1**

## METHOD OF PAYMENT – Team Discount Available

The registration fee is **\$279 per person**, for teams of three or more registering at the same time, the fee is \$259 per person. **Payment is due prior to the program.** No cash please.

- A check (payable to **Bureau of Education & Research**) is attached
- A purchase order is attached, P.O. # \_\_\_\_\_  
(Be sure to include priority ID code on the P.O.)
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Please print name as it appears on card


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Signature (required for credit card purchases)

## FOUR EASY WAYS TO REGISTER:

 **REGISTER ONLINE** at: [www.ber.org](http://www.ber.org)

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

 **PHONE toll-free: 1-800-735-3503**  
(Weekdays 5:30 am - 4 pm Pacific Time)

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

## Program Hours

- All Live Online seminars start times are described on the cover
- Check-in 15 minutes prior to the seminar
- Live Online seminars are five hours in length plus breaks
- Registrants will receive login information by email four days before their Live Online seminar

## Fee

The registration fee is \$279 per person, \$259 per person for groups of three or more registering at the same time. Call us at 1-800-735-3503 for groups of ten or more. **Payment is due prior to the program.** Fee includes seminar registration, a certificate of participation and an extensive digital resource handbook. The fee is the same for Live Online Seminars or Recorded Seminars.

## 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 seminar. Late cancellations made prior to the event date 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.

## Further Questions

Call the Bureau of Education & Research (800) 735-3503 or visit us online at [www.ber.org](http://www.ber.org). The Bureau is North America's leading presenter of PD training for professional educators. Programs are based on sound research, are highly practical in content and consistently receive excellent evaluations.



CNM1F1

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An outstanding one-day Live Online Seminar

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to use online at your convenience



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***Practical PD, No Travel***

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Live Online Seminar  
or Recorded Version



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