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

A Unique One-Day 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

Highly engaging techniques and tools to more effectively incorporate the Next Generation Science Standards (NGSS) into your science instruction

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

Innovative resources for incorporating engineering into your science instruction

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

Receive an extensive science resource handbook and access to a companion e-handbook filled with dozens of valuable strategies and tips to help your students master the NGSS

Colorado
Denver – October 19
(Lakewood)

Illinois
Chicago North – November 1
(Elk Grove Village)
Chicago South – October 30
(Alsip)
Peoria – October 31
(East Peoria)

Kansas
Wichita – November 3

Nevada
Las Vegas – October 20

New Mexico
Albuquerque – October 18

Oklahoma
Oklahoma City – November 2

CEUs and Graduate Credit Available
See page 6 for details
Ten Key Benefits of Attending

1. **Discover the Key Components of Implementing 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.

2. **Make Your Science Classroom More Student Centered**
   Learn a variety of outstanding techniques to fully focus your students on learning the key concepts and skills of the *Next Generation Science Standards* and how to provide multiple opportunities for students to practice and master these skills.

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**
   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.

    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.

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**Who Should Attend**

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

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*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, HIGH SCHOOL TEACHER
Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- A clear understanding of what is encompassed in the Next Generation Science Standards
- Highly effective techniques to 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
- Practical ways to strengthen your science instruction using the science and engineering practice of modeling
- Specific methods to capture and retain students’ focus on learning science in ways that significantly boost achievement

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.
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. I look forward to meeting you at the seminar!

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.

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.
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

“I appreciate the practical applications of the information. I have new ideas for my lesson tomorrow!”

− Kathy Hafner, High School Biology Teacher

“Great! I now have a better understanding of the Next Generation Science Standards.”

− Margaret Warrem, High School Science Teacher

“Liz is very knowledgeable and took time to answer all questions. She really changed the way I think about science education. I’m so excited to get back into my classroom!”

− Emily Sandy, High School Biology Teacher

“Liz is professional, polished and approachable.”

− Diane Guida, High School Science Teacher

“Liz gave a lot of great, useful information to begin to implement right away.”

− Jackie McLain, Middle School Teacher

“I’m excited to implement NGSS. I feel I now have the tools to make this possible!”

− Jaymie Mikeworth, Science Teacher/Dept. Head
Special Benefits of Attending

You’ll Receive an Extensive Science Resource Handbook
Each seminar participant will receive an extensive resource handbook and access to a companion e-handbook specifically designed for this seminar. Included in the handbooks are:

• Practical ideas for helping your students meet rigorous science content and practice standards, including those aligned with the Next Generation Science Standards
• Powerful strategies to increase student engagement and retention of core ideas from the new standards
• Practical ideas for helping your students meet rigorous science content and practice standards, including those aligned with the Next Generation Science Standards
• 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

Meet and Share
This seminar provides a wonderful opportunity for educators to meet and share ideas with other secondary science educators interested in helping students master the NGSS.

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

CEUs Available:

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<td>Illinois</td>
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<td>Kansas</td>
<td>KS Inservice Credit Available with Prior District Approval</td>
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Earn Graduate Credit
Graduate level professional development credit is 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 the seminar.

Can’t Attend?
Other Professional Development Options:

Convenient 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, Grades 6-12, is available for immediate registration. To enroll, visit www.ber.org/onlinelearning
Help Your Students Master the NEXT GENERATION SCIENCE STANDARDS: Practical Strategies and the Best, New Tools (Grades 6-12)

### Registration (CNM8F1)

| 1. | Albuquerque, NM – October 18, 2017 |
| 2. | Chicago North (Elk Grove Village), IL – November 1, 2017 |
| 3. | Chicago South (Alsip), IL – October 30, 2017 |
| 4. | Denver (Lakewood), CO – October 19, 2017 |
| 5. | Las Vegas, NV – October 20, 2017 |
| 6. | Oklahoma City, OK – November 2, 2017 |
| 7. | Peoria (East Peoria), IL – October 31, 2017 |
| 8. | Wichita, KS – November 3, 2017 |

**FIRST NAME** | **M.I.** | **LAST NAME**
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**POSITION, SUBJECT TAUGHT** | **GRADE LEVEL**
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**SEMINAR LOCATION NUMBER:** (Please see list above)

**List additional registrants on a copy of this form**

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**IMPORTANT: PRIORITY ID CODE:** ECNM8F1

### METHOD OF PAYMENT – Team Discount Available

The registration fee is $259 per person, for groups of three or more registering at the same time, the fee is $239 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. #
- [ ] Charge my: [ ] MasterCard [ ] VISA [ ] Discover

Account #: ____________ Exp. Date: ____________ MO/YR

Billing Zip Code: ____________ 3 Digit CVV Code: ____________

(Found on back of card)

Please print name as it appears on card Signature (required for credit card purchases)

### FOUR EASY WAYS TO REGISTER:

- REGISTER ONLINE at: www.ber.org
- FAX this form to: 1-425-453-1134
- PHONE toll-free: 1-800-735-3503 (Weekdays 6 am - 6 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 seminars are scheduled 8:30 a.m. - 3:15 p.m.
Check-in 8:00 a.m. - 8:30 a.m.

### Fee

The registration fee is $259 per person, $239 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. No cash please. Fee includes seminar registration, morning coffee and tea, a personalized certificate of participation, and an extensive resource handbook.

### Meeting Sites and Hotel Accommodations

Seminars will be held at the following sites:
- Albuquerque: MCM Elegante, (505) 884-2511
- Chicago North: Holiday Inn – Elk Grove Village, (847) 437-6010
- Chicago South: DoubleTree – Alsip, (708) 371-7300
- Denver: Hampton Inn West – Lakewood, (303) 969-9900
- Las Vegas: Suncoast Hotel, (702) 636-7111
- Oklahoma City: Crowne Plaza, (405) 848-4811
- Peoria: Stoney Creek Inn – East Peoria, (316) 693-2181
- Wichita: La Quinta Inn & Suites, (316) 943-2181

If needed, please make your own hotel reservations by calling the appropriate hotel listed above.

### 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.

### Further Questions

Call the Bureau of Education & Research (800) 735-3503 or visit us online at www.ber.org. The Bureau is North America’s leading presenter of seminar training for professional educators. Programs are based on sound research, are highly practical in content and consistently receive excellent evaluations.
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Highly engaging techniques and tools to more effectively incorporate the Next Generation Science Standards (NGSS) into your science instruction.

Powerful strategies to increase student engagement and learning.

Motivating classroom-ready ideas for seamlessly integrating the NGSS core ideas into your science instruction.

Presented by Elizabeth Mirra
Outstanding Science Educator and National Presenter

The Most Up-To-Date Approaches and Best Practices to Strengthen Your Science Instruction

A Unique One-Day Seminar Coming to a Location Near You

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