

Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the *Next Generation Science Standards* (Grades 6-12)



A Unique One-Day In-Person Seminar Presented by

Vince Mancuso

Experienced Science Teacher, Outstanding National Presenter
and Author of *Phenomena-Driven Inquiry*

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

Discover **classroom-tested and research-based strategies, lessons and techniques** to successfully use rewarding phenomena-driven instruction that aligns with the *NGSS*

Easy-to-implement strategies to strengthen scientific inquiry, academic discourse and collaboration

Learn the most effective techniques and strategies to design, implement and **deliver highly rewarding 3D learning experiences centered on phenomena**

Dozens of practical methods and strategies to effectively strengthen your existing science program as you align it to the *NGSS* using phenomena-driven inquiry

Connecticut

Hartford (Bristol) – February 2

Massachusetts

Boston (Woburn) – January 31

New York

Long Island – February 3
(Holtsville)

White Plains – February 4
(New Rochelle)

Rhode Island

Providence – February 1
(Warwick)

CEUs and Graduate Credit Available
See page 6 for details

CAN'T ATTEND?

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

Ten Key Benefits of Attending

"Great job!
This seminar was
super helpful for
understanding
phenomena."

– VICTOR QUIROZ,
8TH GRADE SCIENCE TEACHER



- 1. Powerful, Phenomena-Driven Lessons to Invigorate Your NGSS Classroom**
Learn from an outstanding secondary science teacher and national presenter about how you can bring new life into your science program using phenomena-driven instruction ... Practical strategies you can use immediately!
- 2. Discover the Key Components for Incorporating Motivating Phenomena**
You don't have to start from scratch! See how you can take your current program, units and lessons and incorporate phenomena to help students make real-world connections
- 3. Use Phenomena-Driven Instruction to Tap into Students' Natural Curiosity**
Experience science from the student perspective – how they experience, interpret and develop meaning through science and the world around them
- 4. Learn to Design and Facilitate Practical, Phenomena-Driven 3D Lessons**
Discover how to construct and facilitate rich learning experiences, launched by the power of curious and shocking discrepant event phenomena
- 5. Learn Highly Effective Strategies to Incorporate Engaging Discourse and Argumentation**
Powerful strategies to construct, integrate and facilitate meaningful collaboration, discussion and argumentation into your daily lessons
- 6. Take Home NGSS-Aligned 3D Lessons You Can Use Immediately**
Fully developed and field-tested, inquiry-based lessons that center around phenomena ... Ready for you to use in your own science classroom
- 7. 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
- 8. Strengthen Your Students' Collaboration Skills**
Build a more collaborative learning environment ... Help your students develop their teamwork skills to discover and learn science
- 9. Maximize and Strengthen Inquiry-Based Practices**
Learn the most effective inquiry-based practices and management strategies to develop a strong, student-centered classroom
- 10. Receive an Extensive Resource Handbook**
Each participant will receive an extensive resource handbook filled with practical strategies, lessons, tips, and much more to help you use phenomena to meet the NGSS in your science classroom

Who Should Attend

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

Outstanding Strategies You Can Use Immediately

What You Will Learn ...

- Dozens of **ways to use phenomena to engage, excite and generate curiosity** in your *NGSS* classroom
- Brand **new discrepant events delivered in entirely unique ways** never seen before
- Learn the skills to **align your science curriculum with the *NGSS* goals and objectives** focused on phenomena
- Maximize and strengthen your inquiry-based practices to **develop a more student-centered, *NGSS*-aligned classroom**
- Highly effective **strategies to incorporate discourse and argumentation** into your classroom
- Experience startling **natural phenomena that can be immediately implemented** in your instruction
- Discover **discrepant event demonstrations you can use to focus on a particular science concept** and across other content areas
- **Dozens of concrete examples, methods and strategies** to strengthen and reinforce your science instruction and align it with the *NGSS*
- **Field-tested phenomena** that can immediately be used to anchor science lessons
- How you can begin to **use students' wonder and curiosity** for amazing natural phenomena in ways that contradict expectation
- Specific ideas and strategies to help you **include and manage phenomena in your lessons**



*"I truly enjoyed this seminar.
Everything Vince shared made sense and I can use the ideas tomorrow!"*

– VICKI STETSON, 7TH GRADE SCIENCE TEACHER

Practical Ideas and Strategies

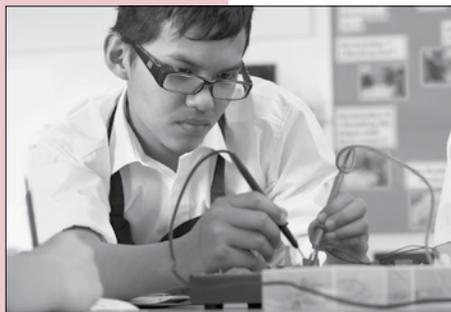
We are in the midst of a shift in the way we deliver science instruction to our students and in the way our students experience and learn science. The spotlight, weight and emphasis on phenomena represents a revolutionary shift in the way science is delivered, experienced and learned. In this interactive seminar, you will learn how to develop and strengthen your instruction to meet this shift toward the *NGSS*. You will learn practical, motivating and proven techniques to boost student understanding and application of key science skills and concepts using phenomena-driven lessons.

Throughout the day, **Vince Mancuso**, an experienced 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. You will receive a wealth of innovative ideas for incorporating phenomena into your daily lessons. During this fast-paced seminar, the emphasis will be placed on practical strategies to incorporate phenomena into your instruction in ways that fully involve students and increase their enthusiasm for learning.

Come and discover the best, new ways to facilitate students' mastery of the new *NGSS* using phenomena and discrepant events and see the significant difference it will make in their achievement in science!



A Message From Seminar Leader, Vince Mancuso



Uniquely Qualified Instructor

Vince Mancuso is a highly experienced science teacher, national presenter and author with a passion for phenomena-driven inquiry and the *NGSS*. He is a frequent presenter at science conferences where his sessions draw standing-room only crowds. Vince enjoys sharing his enthusiasm for using phenomena to get students excited and curious about science. His ideas are powerful and practical and all have been student-proven in his own classroom. He is the author of *Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the Next Generation Science Standards (Grades 6-12)*, the extensive resource handbook each participant will receive.

Join Vince for a highly valuable day filled with practical strategies you can use to inspire and excite all your students about science and increase their learning of the *NGSS*.

Dear Colleague:

The *Next Generation Science Standards* brought sweeping changes to the traditional science instructional practices. One of the most significant changes put phenomena-driven learning as a key focus of educational strategy and practice. One central feature of the *NGSS* is the three-dimensional approach that guides students as they make sense of phenomena and learn key science skills and concepts. But without focused direction and resources, it can be overwhelming.

This dynamic and interactive one-day seminar is designed to guide and support you as you work to implement and align the phenomena-focused goals and objectives of the *NGSS* in your science instruction. Regardless of your level of knowledge and implementation of the *NGSS*, you will leave with new ideas and strategies that you will be able to immediately implement.

You will learn proven methods and strategies that I have researched and tested with my own students. I will give you tips, techniques and practical ideas that I know work with students. Representing the most current research and classroom-tested strategies, this highly informative seminar will give you the tools you need to strengthen your science instruction and increase students' science achievement.

I hope you will 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. You will also leave with an extensive resource handbook that includes the resources shared during the seminar. I am incredibly excited to work with you!

Sincerely,

Vince Mancuso

P.S. 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 classroom.

*"This dynamic and interactive one-day seminar is designed to guide and support you as you work to implement and align the phenomena-focused goals and objectives of the *NGSS* in your science instruction."*

What Your Colleagues Say About Vince Mancuso

*"This was, by far, the best time I've invested in my professional development. This seminar was **extremely helpful in making the NGSS more accessible.**"*

Krista Garvin, 8th Grade Science Teacher

*"Thank you, Vince, for **making the NGSS achievable** and for all of your resources!"*

Julia Wrighton, Science Teacher

*"Thank you so much for your **enthusiasm and practical approach** to help us better teach our students."*

Nancy Kinsella, 6th Grade Science Teacher

*"**There were so many great ideas shared.** Thank you for the explanation of the NGSS and the 3D modeling."*

Tanya Kores, Science Teacher

*"Our school/district has recently started using phenomena-based teaching and it has felt overwhelming at times. This seminar gave me **more tools to use and I'm so glad I attended.**"*

Debi Nelson, 7th Grade Science Teacher



About BER Seminars

Outstanding Instructors

All programs are led by outstanding, top-rated BER national trainers

Extensive Resource Handbook

You'll receive an extensive digital Resource Handbook full of practical strategies and resources. (For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.)

Highly Interactive

You'll be able to ask questions, consult with the instructor, and share ideas with other participants

Program Guarantee

As we have for 44 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



"Vince shared applicable strategies that sparked many ideas for me. Very useful!"

– ALI BARTLETT,
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 or call 877-857-8964 to speak to one of our On-Site Training Consultants.

Extensive Resource Handbook

Each participant will receive an extensive digital resource handbook giving you access to countless strategies. The handbook includes:

- Innovative resources ready for immediate use in your science classroom
- Practical ideas to help you develop and strengthen your curriculum toward the NGSS
- Powerful strategies to integrate and facilitate rich discourse and argumentation in your classroom
- Classroom-tested techniques to deliver the most rewarding learning outcomes for discrepant event demonstrations
- An in-depth guide to selecting the most rewarding discrepant event demonstrations

For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.

Share Ideas with Other Educators

This seminar provides a wonderful opportunity for participants to share ideas with other educators interested in enhancing their science program using phenomena-driven instruction.

Meet Inservice Requirements / Earn State CEUs

Participants of In-Person Seminars and those completing the Recorded Version online can receive a certificate of participation that may be used to verify five continuing education hours. For details about state CEUs available, visit 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

A video recorded version of this seminar will be 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

Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the Next Generation Science Standards (Grades 6-12)

Registration (CNZ2W1)

1. **Boston** (Woburn), MA – January 31, 2022
2. **Hartford** (Bristol), CT – February 2, 2022
3. **Long Island** (Holtsville), NY – February 3, 2022
4. **Providence** (Warwick), RI – February 1, 2022
5. **White Plains** (New Rochelle), NY – February 4, 2022
— or —
6. **I'd like to order the recorded version of this seminar**

FIRST NAME	M.I.	LAST NAME

POSITION, SUBJECT TAUGHT	GRADE LEVEL	

SEMINAR LOCATION 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: ECNZ2W1

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.)
- Charge my: MasterCard VISA Discover
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FIVE EASY WAYS TO REGISTER:

 **REGISTER ONLINE** at: www.ber.org

 **EMAIL this form to:** register@ber.org

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

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

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

Program Hours

All In-Person Seminars are scheduled 8:30 a.m. – 3:15 p.m.
Check-in is 8:00 a.m. – 8:30 a.m.

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 In-Person Seminars or Recorded Seminars.

For in-person seminars, registrants will also receive a printed copy of the resource handbook as long as their registration is received in the BER office at least 15 calendar days before the event.

Meeting Sites and Hotel Accommodations

Seminars will be held at the following sites:

- Boston: Hilton – Woburn, (781) 932-0999
- Hartford: DoubleTree – Bristol, (860) 589-7766
- Long Island: Holiday Inn – Holtsville, (631) 758-2900
- Providence: Radisson – Airport, (401) 739-3000
- White Plains: Radisson – New Rochelle, (914) 576-3700

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 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.

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 PD training for professional educators. Programs are based on sound research, are highly practical in content and consistently receive excellent evaluations.

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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Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the Next Generation Science Standards (Grades 6-12)



Next Generation Science Standards: Innovative, Phenomena-Driven Strategies to Increase Learning (Grades 6-12)

An outstanding one-day In-Person Seminar

Includes an extensive Resource Handbook

Can't Attend? A Recorded Version is available to use online at your convenience

CN22W1



Bureau of Education & Research

Innovative, Phenomena-Driven Strategies to Increase Student Engagement and Learning of the Next Generation Science Standards (Grades 6-12)



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Learn the most effective techniques and strategies to design, implement and **deliver highly rewarding 3D learning experiences centered on phenomena**

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or Recorded Version