

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



A Unique One-Day Seminar Presented by

Vince Mancuso

Outstanding Science Teacher, 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

California

Fresno – November 20

San Diego – November 19

San Jose (Milpitas) – November 21

Hawaii

Honolulu – November 22

New Mexico

Albuquerque – November 18

Graduate Credits Available
See page 6 for details

*“Very inspirational and
thought-provoking!
Great seminar.”*

– KATHY GRANFIELD, SCIENCE TEACHER

Ten Key Benefits of Attending

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

– VICTOR QUIROZ,
8TH GRADE SCIENCE TEACHER



Who Should Attend

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

- 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 classroom 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

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!"

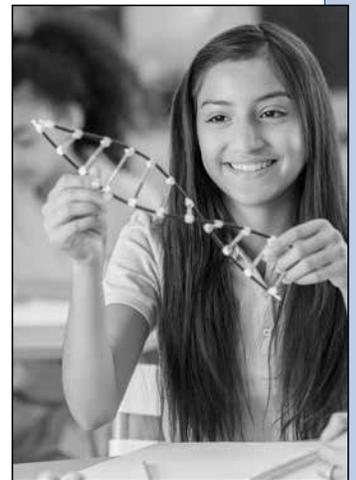
– VICKI STETSON, 7TH GRADE SCIENCE TEACHER

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 the classroom. 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 and practicing 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 current, 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 with other secondary teachers 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 at the seminar.

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* has introduced sweeping changes to the traditional science instructional practices. One of the most significant changes puts 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 classrooms.

'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

*"Vince shared **applicable strategies that sparked many ideas** for me. I can't wait to alter my current NGSS-aligned curriculum to make it more phenomena-based. Very useful!"*

Ali Bartlett, Science Teacher

Special Benefits of Attending



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/online

On-Site Training

Most BER seminars can be brought to your school or district. See the options at www.ber.org/onsite or call 877-857-8964 to speak to one of our On-Site Training Consultants.

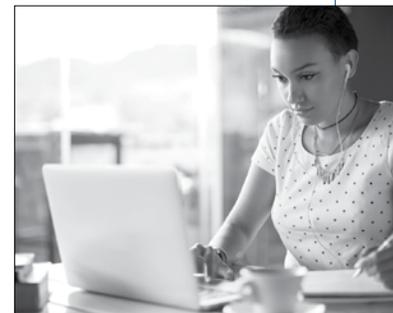
Can't Attend?

Other Professional Development Options:

Related Online Course

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



Extensive Resource Handbook

Each participant will receive an extensive resource handbook specifically designed for this seminar. 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

Meet and Share

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

Consultation Available

Vince Mancuso will be available at the seminar for consultation regarding your questions and the unique needs of your own science program.



Meet Inservice Requirements

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

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.

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

Registration (CNZ0F1)

- 1. **Albuquerque, NM** – November 18, 2019
- 2. **Fresno, CA** – November 20, 2019
- 3. **Honolulu, HI** – November 22, 2019
- 4. **San Diego, CA** – November 19, 2019
- 5. **San Jose (Milpitas), CA** – November 21, 2019

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
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**Registration confirmations are sent via e-mail.
If you would like a confirmation, please provide your e-mail address.**

E-MAIL ADDRESS	
HOME MAILING ADDRESS	
CITY & STATE	ZIP CODE

IMPORTANT: PRIORITY ID CODE: ECNZ0F1

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
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FOUR EASY WAYS TO REGISTER:

REGISTER ONLINE at: www.ber.org

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PHONE toll-free: 1-800-735-3503 (Weekdays 6 am - 5 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 \$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.** 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: Hampton Inn & Suites – Airport, (505) 246-3574
- Fresno: Fairfield Inn & Suites – Airport, (559) 825-5200
- Honolulu: DoubleTree Alana Waikiki, (808) 941-7275
- San Diego: Crowne Plaza, (619) 297-1101
- San Jose: Sonesta Silicon Valley – Milpitas, (408) 943-9080

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.

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



**Best Practices to Use Phenomena-Driven
Instruction in Your Science Program**

A Unique One-Day Seminar

Coming to a Location Near You



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

CN20F1

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



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

Presented by

Vince Mancuso

**Outstanding Science Teacher, National Presenter
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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**