WORKSHOP CATALOG

2015-2016
Science 21
Professional Development
Dear Colleagues,

In this catalog, you will find our SCIENCE 21 workshop offerings for the 2015-2016 school year. Science 21 is a comprehensive elementary science program that is best implemented when coupled with high quality ongoing professional development. In this catalog you will find:

- General information about the SCIENCE 21 workshops
- A brief description of each of the workshops
- A brief biography for each of our consultants
- The Putnam Northern Westchester BOCES workshop cancellation policy
- MyLearningPlan.com registration instructions

We trust that this collection of useful workshops will be both relevant and valuable to your science instruction with students. We look forward to investigating the worlds of science and education with you.

Sincerely,
David Jacob
Regional Science Coordinator
STAFF DEVELOPMENT WORKSHOPS
PUTNAM/NORTHERN WESTCHESTER BOCES
YORKTOWN HEIGHTS, NY  10598
2015-2016 SCHOOL YEAR

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GENERAL INFORMATION ABOUT SCIENCE 21 WORKSHOPS

Registration: Our list of staff development offerings (this catalog) is being sent to the SCIENCE 21 building reps, and Science teachers. Registration is done individually, online through MyLearningPlan at www.pnwboces.org/catalog. Instructions to register are on page 16 and 17 of this catalog. Please note that the registration will not be complete without the approval of an administrator (either online for MLP members or by signed enrollment form). Although the building reps do not register all of the teachers in a school, they can still serve a coordinating role by canvassing the staff and working along with the appropriate administrator to have the registrations approved and sent to P/NW BOCES where applicable. To facilitate scheduling and billing, registrations should be submitted by June 26, 2015. Once we receive the registration approvals, the scheduling process begins. When the scheduling is complete, confirmations can be found on MyLearningPlan. Districts will be billed based on these registrations.

Workshop Rates: Districts that have a Full Service agreement with SCIENCE 21 have access to all of the grade-level unit training workshops or up to four specialty workshops per teacher. In districts that do not have this arrangement, workshops are billed at the rate of $100 per day, per participant for a full-day workshop and $60 per participant for a half-day workshop. The cost for the set of grade level unit training workshops is $250 per participant. (Curriculum manuals and binders are included in the fee for the Unit workshops.)

Unit Training Workshops: It is recommended that all teachers who are using the SCIENCE 21 curriculum for the first time, or teachers who are working at a new grade level, attend all of the unit training workshops for their respective grades, as outlined in the catalog.
**Enrollment/Class Size:** When enrollment is very high, additional sections of workshops may be added. However, in some cases, when sufficient enrollment for a workshop is not achieved, it will be cancelled. *Don’t let great workshops get cancelled; register early and invite your co-workers! Grade-level unit workshops, will not be cancelled so as to provide all teachers with the training necessary to implement SCIENCE 21.

**Cancellations:** Districts will be billed based on registrations unless cancelled **7 days prior to the workshop.** If your district does not approve your attendance, please withdraw your registration online prior to the 7-day cancellation period by contacting Debra Maiorano at dmaioranopnwboces.org. In the event that we need to cancel a workshop for weather or other emergency purposes, all registrants will be informed and the workshop will be re-scheduled. (Please consult our Delay/Cancellation Policy that appears on page 18.)

**Workshop Locations:** Unless noted otherwise, all workshops are held at the P/NW BOCES Yorktown Heights campus, most often in the School Services Building (Bldg A). Travel directions to our campus can be found online: www.pnwboces.org/directions.htm.

**Dates & Times:** Specific dates are posted for all workshops. Unless otherwise noted, workshops are full day classes (8:30-3:00).

**Parking:** All workshop participants should park in the area designated “Visitor Parking.”

**Food:** Coffee and light breakfast refreshments are provided at all workshops. To help keep workshop costs down, lunch is not provided for workshop participants; however, teachers are welcome to bring their own lunches or to go to one of the nearby diners, delis or restaurants.
Grade Level, Unit Training Workshops:
The unit workshops are a series of two, three or four workshop sessions that focus on implementing the lessons from each of the four units of SCIENCE 21. Each session will focus on one or more of the grade level units. These workshops are designed for teachers new to a grade level, new to SCIENCE 21, or for those desiring a more comprehensive update.

Please note that only one registration is required per teacher, per grade level. For example, when you register for Grade 3, Unit Training you will be placed into Unit 1 on 10/1/15, Unit 2 on 11/16/15 and Units 3 & 4 on 1/22/16.

Teachers should bring their SCIENCE 21 curriculum manuals with them to the workshops. If a new manual is needed, it can be requested to be sent to the school prior to the workshop or preferably picked up at the first unit workshop. The table on the following page indicates the dates on which workshops will occur. All workshops are full-day sessions.

*We sometimes offer Unit Workshops at additional regional training centers. For those schedules, please visit: www.pnwboces.org/science21/staff_development.html Registrations for these workshops will be done through MyLearningPlan as well. They will be designated by grade level and location. (Example: Grade 4, Unit Workshops-Dutchess County)
<table>
<thead>
<tr>
<th>Grade</th>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Unit 3</th>
<th>Unit 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>G K,U1&amp;2 - 9/22/15</td>
<td>G K,U3&amp;4 - 1/29/16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>G 1,U1&amp;2 - 9/18/15</td>
<td>G 1,U3&amp;4 - 1/11/16</td>
<td></td>
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<tr>
<td>2nd</td>
<td>G 2,U1-9/25/15</td>
<td>G 2,U2-10/29/15</td>
<td>G 2,U3&amp;4 - 1/21/16</td>
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<tr>
<td>3rd</td>
<td>G 3,U1-10/1/15</td>
<td>G 3,U2-11/16/15</td>
<td>G 3,U3&amp;4 - 1/22/16</td>
<td></td>
</tr>
<tr>
<td>5th</td>
<td>G 5,U1-9/18/15</td>
<td>G 5,U2-10/14/15</td>
<td>G 5, U3-1/12/16</td>
<td>G 5, U4-3/9/16</td>
</tr>
<tr>
<td>6th</td>
<td>G 6,U1-9/21/15</td>
<td>G 6,U2-10/16/15</td>
<td>G 6, U3-1/13/16</td>
<td>G 6, U4-3/10/16</td>
</tr>
</tbody>
</table>
**How to Design and Conduct A Controlled Experiment:**
The ability to design and conduct a controlled experiment is a skill every science teacher and student needs to have. A “fair” test of a single factor, where other variables are held constant, leads to new scientific understanding. In this workshop participants will develop a working knowledge of independent, dependent and controlled variables and will learn how to design experimental procedures that are repeatable, and that will lead to the accurate measurement and recording of data. To develop these skills, teachers will conduct several hands-on experiments, taken from the SCIENCE 21 curriculum, and work cooperatively to create a procedure for a novel experiment. The concepts taken from this workshop will fit fluidly with some of the engineering goals specified in the Next Generation Science Standards and will also help prepare students for concepts tested on the New York State Elementary/Intermediate Level Science Tests.

**Engineering in the Elementary Classroom:**
NYS NGSS will include engineering practices for all students. Come and explore some new and updated activities from Science 21. Learn how we have integrated engineering into the Science, CCLS ELA and Math curricula. Participants will also explore “Strawbees,” an exciting new addition to the Science 21 kits. These innovative materials can be used with straws to build all kinds of structures, including models of simple machines. Take home a FREE bag for your class. What could be more fun than building a robot arm or a marshmallow catapult?

**Code and Date:**
DESIGN EXP 9/30/15
Instructor: Kevin McIntyre

**Code and Date:**
ENGINEER 3/31/16
Instructor: Helen Pashley

**Code and Date:**
CODING 2/4/16
Instructor: Linda Brandon

**Code and Date:**
CODING IN THE K-2 CLASSROOM? YES! THE TIME IS RIGHT!:
Sequencing and order are critical skills for young students and pave the way for future success in math, ELA and the sciences. Teaching students to code in the early grades provides support for other skills such as problem-solving, left to right reading, counting, cause and effect and more. There are a number of excellent apps and programs designed for these early learners that are a perfect way to get students interested. Exposure at this age allows them to begin understanding how computers work and may even foster early interest in careers in computer science. Most important, however, is the valuable problem solving and creative collaboration that will result from the experience.
Developing and Using Models—Strategies for Understanding and Assessment: Can you identify student misconceptions? Can your students critique the accuracy of a model water cycle, or volcano? Explore how the creation of physical or conceptual models can support student success in high stakes testing and long term learning. In this workshop you will learn to use models to probe student ideas. Strategies will include concept cartoons, quick writes and physical models. Participants will learn how to create their own cartoons for student use. Positively no artistic skill required! We will explore sources of confusion if students look at diagrams, models, cutaways and images used in textbooks. You will take away examples for teaching visual literacy and assessing student comprehension.

J ust Right Science:
Similar to selecting “just right books” for children’s reading levels, science concepts can be modified to be accessible to variation in students’ developmental levels. In this workshop participants will explore prevailing theories about cognitive development and how to modify instructional content and techniques to maximize student understanding and comprehension. Differentiation strategies will also be explored as well as best practices drawn from the field of neuroscience and brain research for engaging students and rendering their learning activities vivid, relevant, and exciting.

Science Notebooks as an Integral Part of Science Practices: Using Science notebooks can have a dramatic effect on students’ mastery of science practices and process skills. This workshop has been updated to demonstrate the use of science notebooks in the NGSS classroom while integrating ELA and Math CCLS. You will learn how to set up a notebook, model features of a non-fiction book, and a variety of strategies to encourage student observations and writing. Topics will include planning and carrying out investigations, organization and use of data tables, plotting graphs, and writing conclusions. Participants will model how to use notebooks as part of claim, evidence and reasoning discussions, and as formative and mid unit assessments.
**Using Outdoor Resources in Science**: Nothing helps student understanding of science more than concrete examples in the real world. NYS NGSS strongly encourages teachers to focus on “Doing what scientists do,” as they model science practices for their students. We will explore free resources available outdoors for addressing practices and key topics in 10 minute field trips. We will also use these experiences to enhance your students’ science inquiry skills, math practices and informational writing. Topics will vary depending on conditions, but will include life science (relationships in ecosystems), earth science (space systems, earth’s systems, and weather and climate), and physical science. Please dress appropriately for outdoor activities.

**Instructional Strategies to Prepare for the 4th Grade Science Assessments (Parallel Tasks—4th Grade)**: Fourth grade teachers will leave this full-day workshop with completed activities that can be used the following day with their students. These shoebox science kits explore electricity, mass and measure and temperature. Other activities will cover various aspects of magnetism. These parallel tasks will reinforce and broaden the skills necessary for your students to do well on the E-LST. Participants will review the current format, vocabulary and concepts presented in the 4th grade Elementary Level Science Test and engage in hands-on activities that parallel the skills presented in the performance part of the test. These activities will allow your students to work at a classroom science center, in small groups or on an individual basis throughout the school year. *A supply list will be sent to participants so they can construct the hands-on activities during the workshop.*

**Beginning to Scratch the Surface: Computer Programming with Elementary Students (Grades 3-6)**: Get a jumpstart on “the Hour of Code!” This hands-on session will introduce Grade 3 - 6 teachers to Scratch, the engaging programming tool developed at MIT that is free and enables students to create animations, games, visualizations and “interactives” in a user-friendly, online environment. Scratch encourages the “Four C’s” (creativity & innovation, collaboration, communication and critical thinking) and can be used in all curricular areas, while developing skills in the engineering design process which are so important in the Next Generation Science Standards. Scratch will “hook” your students and enable them to be creators, rather than consumers of technology!
**Elementary Science Leaders Forum:** This series of sessions will be a regional support for teachers and administrators interested in improving science education in their buildings and districts. These forums will be a place for participants to share their experiences in Science, Technology, Engineering and Math (STEM) in their building or district. Topics will be driven by group interest, but potential topics include: MakerSpace in elementary, making time for science instruction, the Next Generation Science Standards, new New York Science Standards, science and engineering practices in elementary, science and the modules, etc. The intended audience are elementary teachers, lead teachers, building curriculum leaders, district level curriculum coordinators, and science department chairs. *This series will meet from 8:30am-11am.

**Tablet Tools—Amp Up Your Science App...tude:**
Mobile devices such as tablets and Smartphones have found their place in the classroom and have special application in the science curriculum. Students and teachers can capture data, take photographs and videos, engage with a wide array of science apps and can even experience augmented reality. In this session, participants will engage with a variety of apps that allow students to think and act like scientists as well as interacting with computer generated sights and sounds. If you haven't experienced augmented reality, jump in and sign up for this session! *BYOD (bring your own device)

**Teachable Moments: Science 21, In the News!**
Nothing keeps curriculum current like tying it to what's happening in the world around us! Join us for a BYOL (Bring Your Own Lunch) learning session as we discuss current science happenings and how these can be incorporated into the Science 21 curriculum at different grade levels. The facilitator will share a number of resources and articles prior to each session. Feel free to bring some of your own resources and ideas to the session as well! Since discussed topics will change as science events in the world do, you can enroll in one, two or all three sessions! Note: these are half-day sessions from 12:00-3:00.
Lesson Study Video Club for the Science & Engineering Practices:

As science teachers in New York prepare for the changes that will accompany new science standards, this series of meetings will be a chance for teachers to review video of teachers using the Science and Engineering (S&E) practices in classrooms. The lesson study model will be used for these meetings. Each session a teacher volunteer will bring in a short video segment of one of the S&E’s being used in their classroom. The group will review the video, analyze how the practice was employed and then share feedback for that that S&E practice. This workshop will be used as a professional learning community for the science teacher ready to bring their instructional practices to the next level. *This series is scheduled to meet from 12pm-3pm.

Science Clinics:

When was the last time you learned Science? College? High School? Science 21 Unit workshops? With new New York Science Standards to be finalized soon, elementary teachers that want to re-familiarize themselves with the “big picture” concepts of the science disciplines will enjoy these workshops. This series of four science content workshops are designed for elementary science teachers that would like to brush up on their background knowledge about life science, physical science, earth/space science and engineering, technology and society.

Life Science Clinic:

This workshop will provide a comprehensive review of the cross cutting concepts and the big ideas of life science. Using existing Science 21 lessons, we will model the changes in teacher practice that are needed to successfully implement the “science and engineering practices” when new science standards are adopted in New York. Participants will leave with a roadmap to help students master planning and carrying out investigations in life science. They will identify those lessons in their grade level in which can be used for investigations. The session will also provide information and an introduction to Animal behavior and Brain processing, which are two new topics for elementary teachers.

Code and Date:

CLINIC-LIFE SCI 10/20/15
Instructors: Helen Pashley With Fred Ende
Science Clinics (continued):

**PHUN WITH PHYSICAL SCIENCE CLINIC:** This workshop will provide a comprehensive review of the cross cutting concepts and the big ideas of physical science. Using existing Science 21 lessons and other content resources, we will model the changes in teacher practice that are needed to successfully implement the “science and engineering practices” when new science standards are adopted in New York. Participants will leave with a roadmap to help students master the practices of asking questions and constructing explanations in the physical sciences. They will identify those lessons in their grade level in which can be used for investigations. The session will also provide information and an introduction to basic earth/space concepts like: structure/properties of matter, chemical reactions, energy, forces and motion, waves and electromagnetic energy.

**ROCKIN’ EARTH/SPACE SCIENCE CLINIC:** This workshop will provide a comprehensive review of the cross cutting concepts and big ideas of earth/space science. Using existing Science 21 lessons and other content resources, we will demonstrate the changes in teacher practice that are needed to successfully implement the “science and engineering practices” when new science standards are adopted in New York. Participants will leave with a roadmap to help students master the practice of modeling in earth science. They will identify those lessons or concepts in their grade level in that are a natural fit for modeling. The session will also provide an introduction to basic earth/space concepts like: the universe/stars/solar system, earth systems, weather and climate, natural resources and human impact on the planet.

**ENGINEERING CLINIC:** This workshop will provide a comprehensive review of the NGSS Dimension 1: Engineering practices. Participants will model the changes in teacher practice that are needed to successfully implement the “science and engineering practices” when new science standards are adopted in New York through a series of engineering design problems. They will use this experience to identify differences between student performance expectations in science and engineering, master the engineering design cycle and learn new vocabulary. You will leave with an understanding of the “progression in student understanding” K-5. Group discussion will identify those lessons, activities and resources which are grade level appropriate.
Dr. Abby Bergman served as the Regional Science Coordinator for Putnam/Northern Westchester BOCES from 2002 until 2011. During his tenure he administered the SCIENCE 21 program and explored a variety of science education policy initiatives. Prior to his work with BOCES he served as an elementary school principal for 28 years, and over the course of his career has authored books, articles, pamphlets, and curriculum guides in elementary science education, performance assessment, site-based management and early-childhood education.

Linda Brandon is the Manager of Instructional Technology for the Lakeland Central School District. She serves as an Instructional Technology Consultant for Putnam/Northern Westchester BOCES, and has presented at many conferences, both locally, and nationally. In addition, her excellent work has been recognized with several awards and honors.

Yvonne Denmark has been an early childhood educator for the past 29 years. Currently Director of the SonShine Preschool in Yorktown Heights, Yvonne previously taught Pre-Kindergarten and Kindergarten in the Ossining Public Schools for over 20 years. She served as a curriculum designer for SCIENCE 21 and has presented a broad variety of workshops for teachers. She earned a Master's Degree in Language and Learning and her background includes staff development, research, and curriculum design in a diverse multicultural school setting.

Fred Ende is the Assistant Director of Curriculum and Instructional Services for Putnam/Northern Westchester BOCES. Prior to this role, Mr. Ende served as the Regional Science Coordinator and Director of SCIENCE 21 at P/NW BOCES, and worked for ten years in Chappaqua as a middle school science teacher and department chair. He was also a facilitator for the American Museum of Natural History's online professional development program and has both written and reviewed manuscripts for the National Science Teachers Association and ASCD.

David Jacob is the Regional Science Coordinator for Putnam/Northern Westchester BOCES. In addition, he serves as the director of the SCIENCE 21 program used by districts across NY State. Prior to joining BOCES, David worked in Clarkstown Central School District as a teacher, building and district administrator. David started his educational career in the US Army working with medical research and training at the Uniformed Services University of the Health Sciences in Washington, DC. This experience gave him his first exposure to science research and teaching practices. He has spent many years in public education developing innovative curriculum design and professional development courses.
**Workshop Instructors/Consultants:**

**Kathryn Kosek** has had a diverse career on the elementary level. Her experiences include being a classroom teacher in grades 2-6 and teaching reading and mathematics to students in a Gifted and Talented Program. She also helped to establish a Museum Magnet Program and developed a Science Enrichment Curriculum for teachers and students in grades Pre-K-6. In collaboration with Iona College, Kathryn co-founded “Time for Science,” an in-service and graduate elementary science program. Kathryn has been a consultant at BOCES since 2003. She is the instructor for third and fourth grade workshops, as well as several special topic workshops.

**Kevin McIntyre** taught as a public school teacher in New York State for 33 years. He has offered courses and workshops to thousands of teachers K-12 in the areas of Cooperative Learning, Multiple Intelligences, Brain-Based Learning, Critical Thinking, Classroom Management, Mentoring, Peer Coaching, Block Scheduling, and teaching Science K-8. Kevin has served as a Biology Mentor for the New York State’s Biology teachers and had served for a period as Vice President of the Southeastern Section of STANYS (the Science Teachers Association of New York State). Currently, Kevin is traveling the United States and Canada as a National Trainer for Kagan Cooperative Learning. He is also a Student Teacher Supervisor for SUNY Oneonta in the Hudson Valley and a Consultant to Putnam/Northern Westchester BOCES’s Science-21 Program. He also, is currently a DASA Trainer.

**John Merlino** served as the District Coordinator for Science and Technology for the Wappingers Central School District for 25 years until his retirement in 2008. He implemented SCIENCE 21 in his district upon its inception which covered 11 schools and over 8,000 students. Previous to this, he taught biology, physical science and health for the Poughkeepsie City School District.

**Dr. Helen Pashley** has been with SCIENCE 21 since 1996. She worked on initial drafts of the curriculum and was a lead consultant for Grades K-2 for many years. She has also authored over 20 SCIENCE 21 “Little Books” and is a presenter for our website video clips. Helen was educated in England where she earned a PhD from Cambridge University. She has great expertise in all areas of science and holds UK and NY State Certifications as a high school Biology teacher. She is currently the Westchester Elementary representative of STANYS (Science Teachers Association of New York State) and the Math/Science consultant for the P/NW BOCES Sustainability project.
To register for a SCIENCE 21 Workshop:
go to www.pnwboces.org/catalog and then click the drop down arrow next to the box that says “select one or more options.” Scroll down and click in the box next to Science 21.

(to insure you see all of the offerings, make sure your dates are between 8/25/2015 and 4/1/2016) and then click on the orange Search button to see the list of available activities.

Scroll through the workshop offerings and Click on the title of the workshop/course to access the activities detail screen.

The activity details screen will be different in different organizations. To register for an activity, some districts will simply need to click Enroll or Submit while some will see the below buttons:

- **Request Approval** button - The activity requires prior approval before enrollment. Clicking on the Request Approval button will forward the request to the appropriate approver(s). Once approved, the enrollment will be complete, and the activity title will appear under Approved and In Progress on the LearningPlan page.

- **Sign Up Now** button - The activity does not require prior approval. Clicking on the Sign Up Now button will immediately process the enrollment.

- **Join the Wait List** button - The activity is full, and there is a wait list. Clicking the Join the Wait List button will add the user's name to the wait list.

*Please note that each teacher has to register themselves individually and it is highly recommended that you use your school email account.*
During the Web Registration you may also see a screen like this:

You will either have to enroll as "a registered user," meaning you have signed up on MyLearningPlan before; OR as "a new user," meaning you have never signed up with MyLearningPlan before.

After your registration is complete, review the Confirmation Message. A confirmation message will be displayed indicating that the registration has been successful.

Teachers should utilize the Help section or click on the Forgot your password quick links to help guide you through any problems or questions you may have with the site. You can also send your inquiries via email to: info@mylearningplan.com

To facilitate scheduling and billing, we recommend registering before you leave school for the summer. Once you have registered for the workshops you want to attend, your district will need to approve your registration; either electronically through MLP or by signing your enrollment form.

If you are not a MyLearningPlan district, you will need to print your enrollment form and return the form with the approval signature of your Principal/District Administrator. We also recommend confirming with and advise any/all people within your district as necessary, to insure sub coverage and permission.

Signed forms can be sent
By mail: PNW BOCES; 200 BOCES Drive; Yorktown Heights, NY 10598
Attn: Debra Maiorano/SCIENCE 21
Via fax: 914-248-2390
Or scanned and emailed to: dmaiortano@pnwboces.org
# WORKSHOP CANCELLATION POLICY

## 2015-2016

### DELAYS IN P/NW BOCES OPENINGS

<table>
<thead>
<tr>
<th>Full Day Workshop</th>
<th>If there is a delayed opening at the Putnam/Northern Westchester BOCES campus, all SCIENCE 21 full-day workshops (8:30 a.m. - 3:00 p.m.) will begin at 10:00 AM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Half-day Workshop (Morning Session)</td>
<td>If there is a delayed opening at the Putnam/Northern Westchester BOCES campus, all SCIENCE 21 morning workshops (8:30 – 11:30 a.m.) will be cancelled. All teachers registered for the workshop will be notified of the rescheduled workshop date.</td>
</tr>
<tr>
<td>Half-day Workshop (Afternoon Session)</td>
<td>If there is a delayed opening of one or two hours at the Putnam/Northern Westchester BOCES campus, all SCIENCE 21 afternoon workshops (12:00 – 3:00 p.m.) will still be held.</td>
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</tbody>
</table>

### P/NW CLOSINGS

| All Workshops | If there is a closing at the Putnam/Northern Westchester BOCES campus, all SCIENCE 21 workshops scheduled for that day will be cancelled. All teachers registered for workshops will be notified of the rescheduled workshop date. |

A delay or school closing for P/NW BOCES will be announced by 8:00 AM on the following radio stations: WFAS – 103.9 FM, WHUD – 100.7 FM, WSPK – 104 FM, and WLNA – 1240 AM.

Please note that delays and closings for P/NW BOCES are also announced on our general telephone line: (914) 245-2700.

Or on the BOCES website at: [www.pnwboces.org](http://www.pnwboces.org)
For more information contact:

PNW BOCES

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or visit us on the web:
http://www.pnwboces.org/Science21