Using the Learning Center as Your e-Textbook with Pre-Service Teachers

Presented by: Flavio Mendez
Panel: Kate Baird, Susan M. Blunck, and Michael R.L. Odell

June 27, 2013
6:30 p.m. – 8:00 p.m. Eastern time
Introducing today’s presenters…

**Flavio Mendez**  
Senior Director, NSTA Learning Center  
National Science Teachers Association

**Kate Baird**  
Indiana University-Purdue University Columbus

**Susan M. Blunck**  
University of Maryland, Baltimore County

**Michael R.L. Odell**  
University of Texas-Tyler
Using the Learning Center as Your e-Textbook with Science Pre-service Teachers

June 27, 2013

http://learningcenter.nsta.org
Agenda

- NLC Overview
- Using NLC as e-Textbook
- Panel discussion
Tell us about you!

Please use the chat window to introduce yourself to others attending this seminar.

Your institution, state
Your role
Overview

http://learningcenter.nsta.org
Enhance and Extend your Professional Learning Experiences

- Self-directed access
- 10,800+ resources
- Free tools to help teachers personalize and document their learning
- Immediate access to online advisors and colleagues through chat and discussion
- Innovative teacher badge recognition system
**Jun. 2013 Collection: 10,800+ PD Resources and Opportunities Available**

<table>
<thead>
<tr>
<th>Do-It-Yourself Learning</th>
<th>Live Online Seminars &amp; Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SciGuides [43]</td>
<td></td>
</tr>
<tr>
<td>Science Objects [94]</td>
<td>Web Seminars [100/yr]</td>
</tr>
<tr>
<td>SciPacks [25]</td>
<td>Short Courses [20+/year]</td>
</tr>
<tr>
<td>Archived Seminars/Podcast [1,850+]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Books &amp; Articles</th>
<th>In Person Experiences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Articles [5,700+]</td>
<td></td>
</tr>
<tr>
<td>NSTA Press Books [300+]</td>
<td>Symposia [6-10/year]</td>
</tr>
<tr>
<td>e-Books [200+]</td>
<td>PD Institutes [6-10/year]</td>
</tr>
<tr>
<td>e-Chapters [2,000+]</td>
<td></td>
</tr>
</tbody>
</table>
Which Learning Center resources/opportunities have you used?

**Do-It-Yourself Learning**
- SciGuides
- Science Objects
- SciPacks
- Archived seminars/Podcasts

**Live Online Seminars & Classes**
- Web seminars
- Short courses

**Books & Articles**
- Journal articles
- NSTA Press books
- e-Books
- e-Chapters

**In Person Experiences**
- Symposia
- PD Institutes

*Use your clip art tool to respond.*
3-5 Science Objects

10-Hour, self-directed, learning experience

Interactive web modules: Sci Packs

Assessment and Certification

Content Mentor
Email Support

Pedagogical Implications
Science Simulations and Animations (over 260!)
<table>
<thead>
<tr>
<th>Earth and Space</th>
<th>Physical</th>
<th>Life</th>
</tr>
</thead>
</table>
| • Earth, Sun, and Moon  
• Gravity and Orbits  
• The Solar System  
• The Universe  
• Weather and Climate  
• Rocks  
• Plate Tectonics  
• Earth’s Changing Surface | • Force and Motion  
• Energy  
• Nature of Light  
• Chemical Reactions  
• Electric and Magnetic Forces  
• Atomic Structure  
• Explaining Matter with Elements, Atoms, and Molecules | • Cell Structure and Function  
• Coral Reef Ecosystems  
• Science of Food Safety  
• Resources and Human Impact  
• Nutrition  
• Cell Division and Differentiation  
• Cells and Chemical Reactions  
• Flow of Matter and Energy in Ecosystems  
• Interdependence of Life  
• Heredity and Variation |
Lesson activities:

- Science & Children *(Elementary)*
- Science Scope *(Middle)*
- The Science Teacher *(High)*
- Journal of College Science Teaching
Do you receive one (or more) of these journals in the mail?

Use your clip art tool to respond.
e-Chapters:

Content areas include:
• Physical, Earth, life science
• Integrating science & literacy
• Environmental science
• Curriculum tools
• Inquiry
• Professional development
• Teaching strategies

Over 2,000 chapters available
• Interact with leading scientists, engineers, education specialists and colleagues from around the world (Mon-Thu, evenings)

• Learn on-demand via 520+ web seminar archives, 1,300+ video podcasts
Tools help teachers to diagnose, organize, personalize, and document their growth over time.

- My PD Indexer
- My PD Plan and Portfolio
- My Library
- My Notepad
- My PD Record and Certificates
- My Calendar
- My Community Forums and Profile
- My Help Desk
My PD Indexer

• Diagnose content knowledge understanding

• View resources and opportunities for consideration

• Add to your plan

---

The Professional Development Indexer helps you diagnose your needs in specific science content areas and provide suggestions of NSTA e-PD resources and opportunities you may want to consider as you plan your professional development (PD). The Indexer does not assign a grade or present a score to the questions you answer, but saves a list of recommended resources for later review.

You have two options for indexing your PD needs. First, you may review all of the content areas across any of the three science disciplines provided: physical, life, or earth and space science by clicking the “Diagnose All Subjects” button with a specific discipline. This will present you with five questions randomly selected from each content area for that discipline. Or, you may select one or more content areas within a discipline by checking the appropriate boxes and then selecting the “Diagnose Selected Subjects” button. This will present 10 questions from each science content area selected.
My PD Plan and Portfolio

Category: My Content Knowledge
Goal: Review/Improve Physical Science Understanding
My Tasks: Define Evidence

Identified Professional Development Resources

<table>
<thead>
<tr>
<th>PD Resource to Address Goal</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perspectives: Action Research: Inquiring Into Science</td>
<td>NSTA Learning Center</td>
</tr>
<tr>
<td>Teaching and Learning</td>
<td>Resource</td>
</tr>
</tbody>
</table>

Expected Date of Goal Completion
6/30/2008

Goal Statement
I plan to improve my understanding and comprehension of major physical science concepts by participating in online courses and experiences relating to force and motion.

Why I chose this goal, and where I am now
- Empty - Add information

Standards
Standards for Professional Development for Teachers of Science: Knowledge and Understanding of Science Understand the fundamental facts and concepts in major science
My Library

- Store NSTA resources
- Upload personal resources
- Review, annotate, recommend resources
- Create, share, make collections public
How do you use your NLC library?

<table>
<thead>
<tr>
<th>Store NSTA resources</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upload personal resources</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Review, annotate, recommend resources</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Create, share, make collections public</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
123,492 Active Users*

- 22,555 Members (18.3%)
- 100,937 Non-Members (81.7%)

Active User Growth

1,106,471 Resources in Libraries
Growth across all discussions

• 12 Forums
• 1,858 Topics
• 19,990 Posts
• Physical Science
• Life Science
• Earth/Space Science
• NGSS
• Evaluation/Assessment
• Research in Science Ed
• Elementary Science
• New Teachers
Testimonials:

I use [the Learning Center] to share ideas that I have and learn more about the ideas of others. What I’ve found in our practice is that, if you isolate yourself, it basically stunts your growth... there’s no follow-up or conversation with other educators... So the opportunity to talk “education” in these forums is very valuable, [you] get insights from other people regarding these resources. In that way it has been very crucial to my growth as an educator...

http://learningcenter.nsta.org/impact/testimonials.aspx
Recognizing Teacher Learning and Leadership

- Provide opportunities to build reputation and contribute to the community as part of teachers’ personal growth.
- Over 40,000 badges earned since 2011.

**Administrator:** One of our teachers sent the following information after receiving a note from NSTA that stated: Congratulations! You have been selected as the NSTA Learning Center Top Advocator for the week of May 28 – June 3, 2012. She was delighted and wrote, "Look at what I got in my email! …NSTA picked me!! It's all because of you ladies that I started this science journey in the first place! Thank you!!"
About Me: As a teacher, I bring experience to my work at the Vermont Agency of Education. I am co-lead in Vermont’s role in NGSS development. As the Elementary Science & Mathematics Specialist I assist with the implementation of the CCSS in both Mathematics and English Language Arts. Recently our team developed a Short Focused Research Project based on science content for K-2 students that is being shared regionally throughout the state. I am a member of a collaborative team of specialists from New Hampshire, Rhode Island and Measured Progress who develop, and construct the NECAP science assessment. In 2000, I was honored as Vermont’s elementary Presidential Awardee for Excellence in Science Teaching. I am an active NSTA member who is currently on the committee that chooses the Outstanding Science Trade Books.

Affiliation: VT Agency of Education

Location: West Barnet, VT

Badges Earned:
Science Pre-service Teacher class at Florida International University
NSTA Online Advisors

- One-on-one live support via private chat
- Moderate forums
- Review resources
- Create collections

### Arlene Jurewicz-Leighton
Arlene Jurewicz-Leighton M Ed is an instructor and instructor trainer for on-line science education courses, an e-mentor and facilitator for eMSS for new science teachers and an analyst and consultant for science digital resource projects. Arlene has facilitated over seventy-five sessions of science education graduate courses for Jason Project / National Geographic. During her tenure Jason won the prestigious EdNet Pioneer Award for excellence in technology innovation for science professional development.

### Patty McGinnis
Patty McGinnis is a national board certified teacher with over 20 years teaching experience at the 7-12 level. She has master’s degrees in biology and in educational technology and has been the recipient of several grants and awards, including the Toyota Tapestry Grant for Teachers, the Toshiba Foundation Grant, and the Paul DeHart Hurd Award for National Middle School Science Teacher. Patty serves as the NSTA Middle Level District Director and is president-elect to NMLSTA.

### Caryn Meirs
Caryn Meirs, elementary teacher, works with gifted and talented 3rd to 5th graders in a magnet setting and is a resource for enrichment and science content (grades 2 through 5). She is a veteran of NSTA conferences, web seminars, JASON Project, GLOBE, and NASA training programs. Her current coursework includes studying the Earth's polar regions, LEGO competition robotics, field investigations using GLOBE protocols, science misconceptions, and designing and building an organic garden/outdoor classroom space.

### Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Mon - Thu</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am - 11:00 pm</td>
<td>9:00 am - 5:00 pm</td>
<td>10:00 am - 2:00 pm</td>
<td>5:00 pm - 11:00 pm</td>
<td></td>
</tr>
</tbody>
</table>
Have you ever contacted the online advisors for questions about the Learning Center?

✔ Yes  ✗ No
Teacher Learning and Self-Efficacy


- **Experimental Design Study**: Pretest-posttest delayed-treatment/control group design with random assignment finds *significant gains in teacher content knowledge, teacher self-efficacy, and students’ gain scores for grades 5-8 in treatment group across two SciPacks*. (2009-2010), n = 56

- **Descriptive Study**: Dissertation research finds *significant gains in teacher learning* for pre-posttest and pretest-final assessment. (2010). n = 85, teachers grades 3-6 from 11 different states.


See: [http://learningcenter.nsta.org/research/](http://learningcenter.nsta.org/research/)
Comprehensive Pre-Post assessment Results including all cohorts (districts/universities)

11958 total SciPack final assessments finished to date. 7449 passed.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Pre-tests</th>
<th>Post-tests</th>
<th>Pre-score</th>
<th>Post-score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Force and Motion</td>
<td>1626</td>
<td>549</td>
<td>68</td>
<td>67</td>
</tr>
<tr>
<td>Energy Assessment</td>
<td>1108</td>
<td>373</td>
<td>80</td>
<td>78</td>
</tr>
<tr>
<td>Oceans Effect on Weather</td>
<td>653</td>
<td>228</td>
<td>69</td>
<td>68</td>
</tr>
</tbody>
</table>

Totals as of 6/7/2012
Professors…what if

1. You could select from existing collections of interactive web modules, simulations, lesson activities, e-chapters, and video podcasts to create an engaging suite of content that is wrapped in an integrated community for sharing, rating, and discourse with badges, points, leader boards, profile, and PD tools to engage your students’ learning?

2. You could track your students’ online activities (sharing, reviews, posts) and learning via pre/post assessments tightly coupled to the science content?
The NSTA Learning Center as e-Textbook

http://learningcenter.nsta.org/group/etextbook.aspx
NLC for Science Pre-Service Teachers

- Dominican University, IL
- Florida International University
- Idaho State University
- Indiana University-Purdue University Columbus
- Mercer University, GA
- Montana State University Billings
- Nova Southeastern University, FL
- Plymouth State University, NH
- Southern Illinois University Carbondale
- The University of Texas at Tyler
- University of Maryland Baltimore County
- Western New Mexico University Gallup
The Learning Center is Your e-Textbook

Create a truly integrated and blended learning experience for your students with a customized interactive e-textbook leveraging the NSTA Learning Center!

What if you could select from existing collections of interactive web modules, simulations, lesson activities, e-chapters, and video podcasts to create an engaging suite of content that is wrapped in an integrated community for sharing, rating, and discourse with badges, points and leader boards to engage your students’ learning? What if you could track your students’ learning via pre/post assessments tightly coupled to the science content? Now you can. Create your e-Textbook today.

With the NLC as your e-Textbook, you and your students will be able to:

- Access over 10,000 interactive digital learning resources
- Deepen your knowledge through rich discussions coupled to selected pedagogical and subject matter content
- Motivate and affirm your students’ learning with points, badges, and class-specific leader boards that capture online student engagement and learning

As the class professor, you will be able to:

- Track your students’ activities via the instructor’s dashboard
- Customize your class landing page

UMBC
Across the past three years, UMBC elementary science pre-service teachers, in my graduate and undergraduate elementary science methods courses, have been taking advantage of the learning opportunities provided in the Learning Center. I look forward to extending the experiences this year by having my students set professional development learning goals and provide evidences and reflections to include in their PD Plan and Portfolio. I encourage other university science educators to get their students involved in Learning Center activities. Our pre-service teachers deserve the opportunity to experience NSTA’s innovative, high-quality, online professional development learning experiences as these
Begin creating your course by filling out the following form. If you would like to give access to your Administrator site to other individuals, please enter their e-mail addresses below.

State: Maryland

Institution: University of Maryland Baltimore Coun

Number of Users: 18

Professor: Flavio Mendez

Course: Methods for Teaching Science Elementary Students

Emails of Additional Admins:

Separate emails with semi-colons (;)

How may we improve this process? Please tell us what you think.
Teacher Learning Journeys: Learn Today...Your Way

Use these learning resources and community to design your own long-term growth plan, collaborate with others, and document your growth!

Susan, you've already earned 1175 Activity Points!

You've recently earned:

ES Indexer Ultimatum
Complete All Earth/Space Indexers

You're close to earning:

Onyx Commenter
Post 4 more comment/questions

Welcome Spring 2013 Students!

Last class we enjoyed learning about the different objects in the solar system through the students’ alien inventions - very informative. It was also fun to learn about the Sun through song from the AstroCappella group.

Register for this web seminar, April 18: Properties of Living Things: Searching for Fingerprints of Life on Mars.

Class stats to date:
Students’ average score (77%) in solar system post-assessment vs. (66%) in pre-assessment. Good job!

- Activity points: 15,540
- Number of posts: 39
- Number of reviews: 16
- SciPacks completed: 7
- Collections shared: 37
- Resources added to library: 727
The NSTA Learning Center for Pre-service Teachers

Thousands of interactive resources and useful tools are at your fingertips when you use the NSTA Learning Center. As a pre-service teacher, you can access these resources, store them in a personal, customized library, and return to them as needed throughout your career. You can also choose to upload your own files or notes to your library, making a secure and available collection of resources that suit your personal and professional needs.

There are currently over 10,000 NSTA resources available (and growing) in the Learning Center. These resources will help you build and improve your content knowledge, teaching methods, and strategies for exceptional classroom performance. Your professor may have created a collection of specific resources for your course and placed those in your library in the Learning Center.

NSTA Student Membership Included! Membership in NSTA delivers all the best professional development and resources a science educator needs. Members select one of the idea-packed, peer-reviewed journals designed for all grade levels to receive via mail.

To purchase access to your collection, all the resources available, and your 1-year NSTA student membership, follow these steps:

1. Access
   http://learningcenter.nsta.org/preservice

   From the dropdown menu, select your state, institution, professor, and course. Enter your name, email address, mailing address, and create your Learning Center password. The resources selected by your professor will be moved to your library.

2. The fee is $99 for your Learning Center access and 1-year NSTA student membership. Please use a credit card to pay online.

NOTES: *SciPacks remain in your library for one year only. For technical questions, visit NSTA's online help desk at (http://learningcenter.nsta.org/help). All sales are final. If you drop your course or it is cancelled, access to all personalized learning resources will be available for the next calendar year.
The NSTA Learning Center for Preservice Teachers

Thousands of interactive resources and useful tools are at your fingertips when you use the NSTA Learning Center. As a preservice teacher, you can access these resources, store them in a personal library, and return to them as needed throughout your career. You can also choose to upload your own files or notes to your library, making a secure and available collection of resources that suit your personal and professional needs.

Your professor may have created a collection of specific resources for your course and placed those in your library in the Learning Center, under the tab labeled "My Resource Collections."

From the dropdown menu below select your state, institution, professor, and course. Your subscription to the e-learning resources will be added to your cart for purchase. The fee is $99 for your subscription. Please pay with your credit card to access your personal resources in your library.

State: Illinois
Institution: Dominican University, summer 13
Professor: Carolyn Mohr
Course: Choose a Course
Professors...do you use a textbook (or e-textbook) when teaching science pre-service teachers?

✔ Yes  ✗ No
## Individual Users

Click on a user's name to see all of the resources they've added to their library via the subscription.

- Export Pre/Post-Test Results (sorted by SciPack)
- View overall activity for this group

<table>
<thead>
<tr>
<th>User</th>
<th>Date Registered</th>
<th># of Resources via Subscription</th>
<th>Last Active</th>
<th>Activity Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student name</td>
<td>02/03/2013 1:42 PM</td>
<td>33</td>
<td>03/25/2013 5:43 PM</td>
<td>1345</td>
</tr>
<tr>
<td>Student name</td>
<td>09/24/2011 9:58 PM</td>
<td>56</td>
<td>04/02/2013 7:55 PM</td>
<td>1165</td>
</tr>
<tr>
<td>Student name</td>
<td>02/06/2013 1:50 PM</td>
<td>24</td>
<td>04/01/2013 9:00 PM</td>
<td>1270</td>
</tr>
<tr>
<td>Student name</td>
<td>01/31/2013 9:13 PM</td>
<td>0</td>
<td>02/04/2013 1:14 PM</td>
<td>0</td>
</tr>
<tr>
<td>Student name</td>
<td>02/11/2013 10:09 PM</td>
<td>24</td>
<td>03/14/2013 7:53 PM</td>
<td>1210</td>
</tr>
<tr>
<td>Student name</td>
<td>03/05/2013 9:10 AM</td>
<td>163</td>
<td>04/02/2013 4:08 PM</td>
<td>2610</td>
</tr>
<tr>
<td>Student name</td>
<td>02/01/2013 1:04 PM</td>
<td>106</td>
<td>04/01/2013 9:03 PM</td>
<td>2265</td>
</tr>
<tr>
<td>Student name</td>
<td>01/31/2013 2:02 PM</td>
<td>237</td>
<td>04/01/2013 11:56 AM</td>
<td>3490</td>
</tr>
<tr>
<td>Student name</td>
<td>01/31/2013 7:57 PM</td>
<td>67</td>
<td>04/02/2013 7:36 PM</td>
<td>1780</td>
</tr>
<tr>
<td>Student name</td>
<td>02/06/2013 3:53 PM</td>
<td>41</td>
<td>03/27/2013 11:23 AM</td>
<td>1115</td>
</tr>
</tbody>
</table>
Select the activities you have completed this semester in the Learning Center (n=93):

<table>
<thead>
<tr>
<th>Activity</th>
<th>Response Percent</th>
<th>Response Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Created a collection of resources</td>
<td>90.3%</td>
<td>84</td>
</tr>
<tr>
<td>B. Shared a collection of resources with other students/teachers</td>
<td>60.2%</td>
<td>56</td>
</tr>
<tr>
<td>C. Wrote a review about an individual resource or a collection</td>
<td>44.1%</td>
<td>41</td>
</tr>
<tr>
<td>D. Participated in the Community Forums by posting comments</td>
<td>46.2%</td>
<td>43</td>
</tr>
<tr>
<td>E. Used the PD Plan and Portfolio tool to document my PD activities and learning</td>
<td>32.3%</td>
<td>30</td>
</tr>
<tr>
<td>F. Completed my Profile</td>
<td>71.0%</td>
<td>66</td>
</tr>
<tr>
<td>G. Enhanced my content knowledge via Science Objects, SciPacks, or other resources</td>
<td>83.9%</td>
<td>78</td>
</tr>
<tr>
<td>H. Attended one of more live web seminars</td>
<td>31.2%</td>
<td>29</td>
</tr>
<tr>
<td>I. Watched a web seminar archive</td>
<td>37.6%</td>
<td>35</td>
</tr>
<tr>
<td>J. Uploaded a Learning Center Podcast to my mobile device</td>
<td>7.5%</td>
<td>7</td>
</tr>
<tr>
<td>K. Contacted an online advisor for assistance via live chat</td>
<td>15.1%</td>
<td>14</td>
</tr>
</tbody>
</table>
What students say…

The NSTA website is great for any science teacher. It contains much more information when compared to a textbook. Also, it is GREAT not having to carry around a textbook to each class.

Easy to navigate (if you practice going through it) and it contains a lot more useful sources. You are able to pick and choose your interest rather than be forced to learn about one. Overall it is the best e-textbook I have ever had.

All in all, the NSTA LC was very useful for this class. I like that I had access to so many articles and books which I could access at any time, from any computer with an internet connection.

I enjoyed learning about science online and being able to interact with professionals through the web seminars rather than just reading through the book.
<table>
<thead>
<tr>
<th>Feature</th>
<th>Option 1: $99 per student</th>
<th>Option 2 (new!): $67 per student</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class landing page (with branding), custom text and home button; link back to institution; local leader boards</td>
<td>same</td>
<td>same</td>
</tr>
<tr>
<td>Private community forum (optional)</td>
<td>same</td>
<td>same</td>
</tr>
<tr>
<td>Pre/post assessment items (optional)</td>
<td>same</td>
<td>same</td>
</tr>
<tr>
<td>Online advisors, help desk, online orientation</td>
<td>same</td>
<td>same</td>
</tr>
<tr>
<td>Student: All NLC fee-based resources free for 1-year (except: books, e-books, online courses); tools, forums</td>
<td>Student: All NLC fee-based resources free for 6-months (except: books, e-books, online courses); tools, forums</td>
<td>same</td>
</tr>
<tr>
<td>Student: 1-year NSTA Student Membership ($35 value)</td>
<td>same</td>
<td>same</td>
</tr>
<tr>
<td>Professor: All NLC fee-based resources free for 1-year (except: books, e-books, online courses); all tools, all forums</td>
<td>same</td>
<td>same</td>
</tr>
<tr>
<td>Professor: Access to administrator dashboard with usage data, assessments scores</td>
<td>same</td>
<td>same</td>
</tr>
</tbody>
</table>
About the student access:

• The promo code the student purchases gives her access to the class landing page, the private community forum (if selected), and free access to all the fee-based resources in the NLC for 1 year, excluding books, e-books, online courses.

• The promo code allows the student to participate in the recognition program so that his name appears in the class leader boards.

• All the resources the student adds to her library are hers to keep forever. Only the SciPacks expire after 1 year. The tools in the Learning Center are free and available forever. All activity on PD Plan, PD Indexer, Library, etc., the student keeps forever beyond the class term.

• The NSTA Student Membership is 1 year in duration.
University/college bookstore subscription course card available *(includes unique Learning Center code)*
Panel Members

Dr. Kate Baird
Indiana University-Purdue University Columbus

Dr. Susan Blunck
University of Maryland, Baltimore County

Dr. Michael Odell
The University of Texas at Tyler
Dr. Kate Baird
Indiana University-Purdue University Columbus

• Natural and social science methods
• 15-24 students per semester
• Three semesters using the NLC as e-Textbook

One way I use the NSTA Learning Center as my class e-Textbook is…
Dr. Susan M. Blunck
University of Maryland, Baltimore County
• Teaching science content & methods to pre-service elementary teachers
• 1 class @15 students each, per semester
• Nine semesters using the NLC as e-Textbook

One way I use the NSTA Learning Center as my class e-Textbook is…
Dr. Michael Odell and Donna Wise
The University of Texas at Tyler
• Elementary science methods/PBI
• 30/24 students this semester
• Three semesters using the NLC as e-Textbook

*One way I use the NSTA Learning Center as my class e-Textbook is…*
Questions and Discussion

Dr. Kate Baird
Indiana University-Purdue University Columbus

Dr. Susan Blunck
University of Maryland, Baltimore County

Dr. Michael Odell
The University of Texas at Tyler

Please type your questions in the chat window. If directed to a specific panel member, please specify by including her/his name as part of the question.
# Using the NLC as e-Textbook

<table>
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<tr>
<th>With the NLC as your e-Textbook, you and your students will be able to:</th>
<th>As the class professor using the NLC as e-Textbook, you will be able to:</th>
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<tbody>
<tr>
<td>Access over 10,000 interactive learning resources</td>
<td>Track your students’ activities via the administrator’s dashboard</td>
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<tr>
<td>Deepen your knowledge with rich discussions and resource sharing</td>
<td>Customize your e-Textbook landing page with your own text and logo</td>
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<td>Affirm students’ learning with points, badges, and local leader boards</td>
<td>Join in discussion with other professors using the NLC as their e-Textbook</td>
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If you are interested in learning more about using the Learning Center to teach your science pre-service class this coming semester...

Contact Flavio Mendez, NSTA
fmendez@nsta.org
703-312-9250
Thank you for attending...don’t forget your **free** SciPack as you complete your web seminar survey.

Flavio Mendez, fmendez@nstaa.org
Kate Baird, kabaird@iupuc.edu
Susan Blunck, blunck@umbc.edu
Michael Odell, modell@uttyler.edu
Thanks to today’s presenters!

Flavio Mendez  
Senior Director, NSTA Learning Center  
National Science Teachers Association

Kate Baird  
Indiana University-Purdue University Columbus

Susan M. Blunck  
University of Maryland, Baltimore County

Michael R.L. Odell  
University of Texas-Tyler
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