Planning your Summer Professional Learning Experiences

Presented by: Flavio Mendez

May 12, 2011
8:15 p.m. - 9:45 p.m. Eastern time
Planning your Summer Professional Learning Experiences

May 12, 2011

http://learningcenter.nsta.org

Flavio Mendez
Senior Director
Agenda

- Your summer PL plans
- PD Plan & Portfolio Tool
- The NSTA Learning Center
- LC Resources, Library, and Forums

http://learningcenter.nsta.org
An opportunity:
- Relax
- Reflect
- Review
- Study
2010 National Education Technology Plan

Through online learning systems, teachers may enhance their learning through blending the best of onsite PD with online PD that provides immediacy, convenience, self-direction, and collaboration with other colleagues and experts via professional learning communities.

For teachers to effectively facilitate using interactive resources, learning systems, and connectedness to online communities, teachers need to experience it firsthand as part of their own learning and professional development.

What are your summer professional learning plans?
To enhance my...

<table>
<thead>
<tr>
<th>Content knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content pedagogy</td>
</tr>
<tr>
<td>Assessment/evaluation skills</td>
</tr>
<tr>
<td>Technology skills</td>
</tr>
<tr>
<td>Leadership skills</td>
</tr>
<tr>
<td>Management skills</td>
</tr>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>
What are you going to do to achieve your summer professional learning plans?
<table>
<thead>
<tr>
<th>I plan to…</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6-to-8 week university/community college course</td>
<td></td>
</tr>
<tr>
<td>2-week intensive course at local university, government program, or district office</td>
<td></td>
</tr>
<tr>
<td>DIY, self-paced online resources</td>
<td></td>
</tr>
<tr>
<td>Professional conferences/out-of-state programs</td>
<td></td>
</tr>
<tr>
<td>Local (one-day or 2-3 hours) workshops</td>
<td></td>
</tr>
<tr>
<td>Read</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>
How are you going to document your professional learning experiences?
My PD Plan & Portfolio Tool
Identify Evidences

Category: My Content Knowledge
Goal: Earth and space science content knowledge.

My Tasks:
- Define Evidence
- Edit Goal
- Delete Goal

Instructions and How-To Animations

Identified Professional Development Resources
Visit the learning center search page where you can select and search resources to assist in your professional development goals.

Expected Date of Goal Completion
8/27/2010

Goal Statement
Increase my content knowledge in the area of Earth and space science during the summer of 2010 in preparation for the school year 2010-2011.

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

Standards
Earth and Space Science Content Standards, grades 6-8.
Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 650 Activity Points!

You've recently earned:
- Ruby Aggregator (Add Personal Resources)
- Sapphire Commenter (Post 3 more comment/questions)

Be sure to update your profile and review your points & badges!

With these resources you can build your professional development plan, track your activities and assess your progress. You can start at "Explore Learning Opportunities" below or by creating your game plan with the PD Plan and Portfolio tool. You may also review an archived Web Seminar or a multimedia overview of the Learning Center.

Explore Learning Opportunities
- Advanced Search
- See all FREE Lesson Plans
- See all FREE Resources

NEW LÍVE SUPPORT
Online Advisors now available!

NSTA ONLINE SHORT COURSES
Energy, Summer 2011

LIVE SUPPORT ONLINE
Click here →
Name your Portfolio; your name is the default
PD Plan & Portfolio Tool

Steps 3-16 on the *How-To Guide* you do as homework after this seminar.

- Choose dates, goal category
- Create goal statement
- Create evidence-action pair(s)
- Upload evidences
- Generate PDF report
Welcome to My PD Plan & Portfolio Tool!

Welcome to My Professional Development Plan and Portfolio Tool: This flexible and easy-to-use tool collection represents web-based resources designed to help you reflect upon, plan, manage, organize, and report those experiences defining your own professional development journey across a specified time period. The tools help you complete the following steps in the creation of your own personal PD plan and portfolio:

- **Step One:** Identify your professional development (PD) goal categories
- **Step Two:** Describe your specific PD goals
- **Step Three:** Define action items and portfolio artifacts (evidence)
- **Step Four:** Upload evidence files
- **Step Five:** Review goal status and reflect on your accomplishments
- **Step Six:** Automatically generate your PD reports

Select the button below to begin (or continue) your PD plan and portfolio journey:

**My Portfolio**

Get started (or continue) using this tool!

**Tool Overview**

View a short animation describing the various features of this tool, or download the "Portfolio Help" PDF (0.5 MB) for assistance on how to get started.

**Sample Reports**

View a sample PD portfolio report (PDF file).
Select Professional Development Timeframes & Categories

This page represents the first step toward developing your professional development plan and portfolio (PDPP) using this NSTA PDPP set of web-based tools. As you review the specific professional development categories below, reflect upon those areas of your professional practice that you would like to improve. To help you organize and simplify your personal PDPP journey, you can select only those categories you intend to address in this plan to be displayed within your personal portfolio space. You can return to this screen at any time and add additional categories to your plan if needed.

Once you complete this page, you can define specific goals for each of the selected categories.

Select Timeframe

In addition to specifying personal goal categories for your portfolio, you can also identify the general timeframe that your portfolio will reflect by choosing a range of years below. Choose all that apply:

Current and future years ...

☐ 2009  ☐ 2010  ☐ 2011  ☐ 2012

Past years (if you plan to document previously-completed PD activities) ...

☐ 2002  ☐ 2003  ☐ 2004  ☐ 2005  ☐ 2006  ☐ 2007  ☐ 2008

Check PDP categories to make visible in your Portfolio

<table>
<thead>
<tr>
<th>Visible</th>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>My Content Knowledge</td>
<td>Select this category if you plan to develop goals that address improving your understanding of content knowledge and concepts associated with a specific science content area (Earth/Space Science, Physical Science, Life Science). You may also want to consider goals associated with your understanding of the nature of science, inquiry, safety issues, and the role of science in the community.</td>
</tr>
<tr>
<td></td>
<td>My Content Pedagogy</td>
<td>This category of professional development goals might address improving your ability to design and implement instructional experiences using methods and strategies related to science instruction (i.e., inquiry-based learning, problem based learning, etc.). Goals associated with general teaching skills as well as curriculum concerns might also be included in this category.</td>
</tr>
<tr>
<td></td>
<td>My Assessment/Evaluation Skills</td>
<td>Select this category if you hope to improve your ability to design, implement, and analyze strategies to measure and evaluate learning. Goals in this category might also address strategies for self-evaluation and continuous improvement methodologies.</td>
</tr>
</tbody>
</table>
Define/Measure Goals

Category: My Content Knowledge

My Tasks

Instructions

Click the button above to define a specific goal statement. Information from the following websites may help you define goals based on state/national standards:

- Review Your State Certification Requirements
- Standards for Professional Development for Teachers of Science
- Benchmarks for Scientific Literacy
- National Board for Professional Teaching Standards
- Partnership for 21st Century Skills
- Information and Communication Technology Literacy
- National Educational Technology Standards

- My Content Knowledge

- View "Creating a Goal" How-To Animation
Identify Evidences

Category: My Content Knowledge
Goal: Earth and space science content knowledge.

You are currently using 0% of your 1 GB

Instructions and How To Animations

Identified Professional Development Resources
Visit the learning center search page where you can select and attach resources to assist in your professional development goals.

Expected Date of Goal Completion
8/27/2010

Goal Statement
Increase my content knowledge in the area of Earth and space science during the summer of 2010 in preparation for the school year 2010-2011.

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

Standards
Earth and Space Science Content Standards, grades 5-8.
<table>
<thead>
<tr>
<th>My digital evidence might be…</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course transcript</td>
</tr>
<tr>
<td>Certificate of participation</td>
</tr>
<tr>
<td>Scanned agenda; photos</td>
</tr>
<tr>
<td>Samples of student work</td>
</tr>
<tr>
<td>Personal reflections</td>
</tr>
<tr>
<td>Completed assignments</td>
</tr>
<tr>
<td>Reports, reviews</td>
</tr>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>
Overview

Category: My Content Knowledge
Goal: Earth and space science content knowledge
Goal Stmt: Increase my content knowledge in the area of Earth and space science during the summer of 2010 in preparation ...

Evidence (Action Items and Portfolio Artifacts)

Evidence Name (required):

Select or Create Action Item(s) (required):
Suggested Action Items:
(Please check one)
- [ ] Successfully complete a college/university/NSTA or other professional organization course
- [ ] Participate in a district/division workshops
- [ ] Participate in an NSTA or other conference workshops
- [ ] Present at a state or national conference
- [ ] Publish an article
- [ ] Complete the Graduate Record Exam (Content Test)
- [ ] Read a Professional journal/text

User Created Action Item(s):
(These might include actions related to measuring and reporting successful goal accomplishment. For example, creating new lesson material or developing and using comprehensive evaluation rubrics might constitute action items. Be sure to tailor these to your own goals.)
Support Evidence

Category: My Content Knowledge
Goal: Earth and space science content knowledge.
Evidence: Learning Center’s SciPacks (2)

My Tasks:
- [ ] Upload Evidence
- [ ] Add Note/Link
- [ ] View/Edit Evidence
- [ ] Delete Evidence

Action Items

- Successfully complete Learning Center SciPack

Justification of Action Items
The Learning Center’s SciPacks contain content knowledge that I must know as a science teacher. The SciPack are self-paced, giving me the freedom to complete them when it is convenient for me. They include quizzes and an embedded text to assess knowledge gain. It also has a content mentor feature that I can use to submit questions to an expert if needed.

Evidence of Action Items Completion
SciPack final assessment certificate (PDF).
<table>
<thead>
<tr>
<th>Category</th>
<th>Goal</th>
<th>Action</th>
<th>Expected Date of Goal Completion</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>My Content Knowledge</td>
<td>Earth and space science content knowledge.</td>
<td>Edit Reflection</td>
<td>8/27/2010</td>
<td></td>
</tr>
</tbody>
</table>
http://learningcenter.nsta.org/PortfolioTool/pdfs/sample_teacher_portfolio_report.pdf
Let’s pause for questions about the Learning Center’s PD Plan & Portfolio tool
Personalized Professional Learning

- A community to share ideas, ask questions, and earn points
- Practical tools to help teachers organize, personalize, & document growth
- Over 6,200 resources
May 2011:

Over 77,300 active users with over 590,000 resources across their libraries

You are not alone…
Welcome to Your Personalized Learning Web Space!

Flavio, you've already earned 6190 Activity Points!

You've recently earned: Ruby Aggregator, Add Personal Resources

You're close to earning: Sapphire Commenter, Post 3 more comment/questions

Be sure to update your profile and review your points & badges!

With these resources you can build your professional development plan, track your activities and assess your progress. You can start at "Explore Learning Opportunities" below or by creating your game plan with the PD Plan and Portfolio tool. You may also review an archived Web Seminar or a multimedia overview of the Learning Center.
I have used/attended the following LC resources/opps:

<table>
<thead>
<tr>
<th>Science Objects</th>
<th>Journal Articles</th>
<th>Web Seminars</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Seminar</td>
<td>Podcasts</td>
<td>Online Short Courses</td>
</tr>
<tr>
<td>Archives</td>
<td></td>
<td>Sci Packs</td>
</tr>
<tr>
<td>e-Books</td>
<td>Sci Guides</td>
<td>e Chapters</td>
</tr>
</tbody>
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I have used the following LC tools:

<table>
<thead>
<tr>
<th>My Profile</th>
<th>My Library</th>
<th>My PD Indexer</th>
<th>My PD Plan &amp; Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>My PD Record</td>
<td>My Calendar</td>
<td>My Notepad</td>
<td>Discussion Forums</td>
</tr>
<tr>
<td>and Certificates</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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Complete this space and upload your thumbnail image:

Your profile is a professional reflection for others to learn about you as they view your contributions to this learning community. As you create, rate and share resources and collections of resources you will earn points and badges that will travel with you and reflect your contributions to the community. You are not an island unto yourself, but connected to a larger group of like-minded colleagues at various levels of experience. Get connected and engaged by contributing your ideas to the discussion forums, uploading your best resources into a public collection for others to try, and if you have a question, be sure to tap the live online advisors.

So let's get started! Upload an image of yourself, let us know who you are, and become part of this dynamic community and the resources we can share amongst each other!

Your activity makes contributions like these

- Give a Bowl of Rice
- Plant a Seed
- Plant a Giving Tree

YOU'RE CLOSE TO EARNING

- Onyx Commenter
  - Post 5 more comments/questions
- NSTA Resource Activator
  - Add 5 more NSTA Resources

View all badges & activities

Badges Yet to be Earned

Visit the activities page to learn how you can earn points and badges. The NSTA Learning center awards badges based on activities performed within the website. Pursuing badges is a great way to explore all the resources and professional development tools the Learning Center has to offer.
Community Profile

Any information shared in this Community Profile section is publicly available to all registered users of the Learning Center.

Change Profile Pic

School / Work Affiliation

About Me

Location

IM Screen Name

Twitter

Facebook

Skype Name

Allow other Learning Center users to send me Private Messages. My email address will not be shared.
Edit your Learning Center Community Profile
e-PD Resources
• Two-hour free online learning experience in a particular topic
• Based on science literacy goals in science education standards
• Eighty (80) Science Objects currently available
Elements of a Science Object: 2-hour learning experience

- Videos
- Slide shows
- Images
- Hands-on activities
- Preconceptions boxes
- Simulations
- Assessment
Example Simulations and Animations
3-5 Science Objects

10-Hour, self-paced, learning experience

SciPack

Content Mentor
Email Support

Assessment and Certification

Pedagogical Implications
Which SciPack title will you choose at the end of the program?

<table>
<thead>
<tr>
<th>Earth, Sun, and Moon</th>
<th>Gravity and Orbits</th>
<th>The Solar System</th>
<th>The Universe</th>
<th>Oceans Effect on Weather and Climate</th>
<th>Rock Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Plate Tectonics</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>Earth’s Changing Surface</td>
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</tr>
<tr>
<td></td>
<td>Force and Motion</td>
<td></td>
<td>Energy</td>
<td>Nature of Light</td>
<td>Chemical Reactions</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric and Magnetic Forces</td>
<td>Cells Structure and Function</td>
<td>Coral Reef Ecosystems</td>
<td>Science of Food Safety</td>
<td>Resources and Human Impact</td>
<td>Nutrition</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cell Division and Differentiation</td>
<td>Explaining Matter with Elements, Atoms, and Molecules</td>
<td>Atomic Structure</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Other e-PD resources:

• SciGuides
• Web Seminar Archives
• Podcasts
• Journal Articles
• eBook Chapters
• eBooks
• Online Short Courses
How to add resources to your "Library?"
Search all NSTA resources and offerings below:

Keyword: 
Author: 

Type of Learning Resource: All Products

Grade Level: All Grade Levels
Elementary School
Middle School
High School
College
Informal Education

Science Discipline: All Subjects

Price: All Prices

Search
Save time by accessing a collection
**Energy: Elementary Collection**
A collection of resources for elementary school teachers on the topic of energy
12 Items  Not yet reviewed
Created by Learning Center Online Advisors on 9/30/2010

- **What's Hot? What's Not?**
  - Type: Journal Article
  - Grade: Elementary School, Middle School

- **The Early Years: The Sun's Energy**
  - Type: Journal Article
  - Grade: Elementary School, Informal Education

[View all 12 items in this collection]

**Energy: High Collection**
A collection of resources for high school teachers on the topic of energy
13 Items  Not yet reviewed
Created by Learning Center Online Advisors on 9/30/2010

- **Science Sampler: To heat or not to heat**
  - Type: Journal Article
  - Grade: Middle School

- **Career of the Month: Roller Coaster Designer**
  - Type: Journal Article
  - Grade: High School

[View all 13 items in this collection]
Energy: Elementary
A collection of resources for elementary school teachers on the topic of energy

Intended for: Elementary school
- Shared by Learning Center Online Advisors
- Re-Share this Collection
- Be the first to review this collection

Don't Forget!: Use the buttons next to each item to add these resources to your own library so that you don't lose access to them if the collection owner changes or removes this collection.

Currently displaying items: 1 - 12 of 12

   - Type: Web Seminar Archive
   - Grade: Elementary School, Middle School
   - Summary: The first of two Web Seminars on the topic of Living and Working in Space: Energy was held on Thursday, December 14, 2006, from 6:30 p.m. to 8:00 p.m. Eastern time. The presenter was Dr. Terry Kucera, Solar Physicist.

2. **Energy**
   - Type: SciPack
   - Grade: Elementary School, Middle School, High School
   - Summary: SciPacks are self-directed online learning experiences for teachers to enhance their understanding of a particular scientific concept and its related pedagogical implications for student learning. Unlimited expert content help via email and a final assessment.

3. **Energy**
   - Type: SciGuide
   - Grade: Elementary School, Middle School
   - Summary: SciGuides are a collection of thematically aligned lesson plans, simulations, and web-based resources for teachers to use with their students centered on standards-aligned science concepts. This SciGuide addresses forms of energy and the transformations.

4. **Energy: Different Kinds of Energy**
   - Type: Science Object
   - Grade: Elementary School, Middle School, High School
   - Summary: Science Objects are two hour online interactive inquiry-based content modules that help teachers better understand the science content they teach. This Science Object is the first of four Science Objects in the Energy SciPack. It provides a conceptual...
Add resources to your “Library” now
Let’s pause for questions about the Learning Center’s e-PD resources
Using the Library
Welcome to Your Personalized Learning Web Space!

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My Library: NSTA Resources

Welcome to your collection of professional development resources. Select from the links and tabs below to access your NSTA resources, your uploaded items, organize them into collections, and then share your collections with others.
Upload your own resources to **My Library**

- Word docs
- Excel files
- PPT pres.
- URLs
- Images
Welcome to your collection of professional development resources. Select from the links and tabs below to access your NSTA resources, your uploaded items, organize them into collections, and then share your collections with others.

Collections enable you to group together and organize your NSTA resources. You may also share collections with friends and colleagues.

To create a new collection:
- Click "Start a New Collection" below, fill in the brief form and click "Submit"
- Choose items from your library, our resource search page, or upload your own files to add to the collection
- NOTE: NSTA resources must first be added to your library before they can be added to a collection
- For more help view the My Library Help Guide (1.24 MB PDF) to see screen shots and step-by-step instructions

My Collections

<table>
<thead>
<tr>
<th>Title</th>
<th>Created</th>
<th>Shared by</th>
<th>Shared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climate Change</td>
<td>9/3/2010</td>
<td>The Learning Center</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>8 items</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climate Change Here and Now:</td>
<td>9/10/2010</td>
<td>The Learning Center</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>7 items</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth Day PD Resources for Teachers of Science</td>
<td>4/12/2010</td>
<td>The Learning Center</td>
<td>9/13/2010</td>
</tr>
<tr>
<td>9 items</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FDA/CFSAN: Food Irradiation</td>
<td>9/10/2010</td>
<td>The Learning Center</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>7 items</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSTA REPORTS Freebies Column: Nov. 2010</td>
<td>9/20/2010</td>
<td>The Learning Center</td>
<td>9/10/2010</td>
</tr>
<tr>
<td>3 items</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Discussion Forums
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Discussion Forums *(asynchronous)*

- Five public forums
- Discussions about content, classroom practice, and e-PD resources
I believe that primarily, science should be protecting our health and not the pocket of few. I find this website really both eye opening and inspiring to pursue the true mission of science.

http://www.centerforfoodsafety.org/

Hi Ronaldo, What a great topic to bring up - Food Safety! Thank you for starting this thread. I checked out the website you shared. It was very interesting and provided information about some important topics we often hear being discussed in the news about the safety of our public food supplies. I did an advanced search in the NSTA Learning Center and found a wealth of resources at our fingertips. There are several collections already created within the Learning Center and each contains gobs of great resources to explore. The titles of some of the collections are:

Science of Food Safety: Elementary Collection
Science of Food Safety: High Collection
Science of Food Safety: Middle Collection
Nutrition: Elementary Collection
Nutrition: High Collection
An opportunity:

- Improve
- Advance
- Network
- Earn

http://learningcenter.nsta.org
Personalized Professional Learning

• A community to share ideas, ask questions, and earn points

• Practical tools to help teachers organize, personalize, & document growth

• Over 6,200 resources
Recognize our Collaborators
Don’t forget the web seminar evaluation
and to choose your FREE SciPack

<table>
<thead>
<tr>
<th>Completed</th>
<th>Earth &amp; Space 8 Topics</th>
<th>Physical 7 Topics</th>
<th>Life 6 Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Earth, Sun &amp; Moon</td>
<td>Force &amp; Motion</td>
<td>Cell Structure &amp; Function</td>
</tr>
<tr>
<td></td>
<td>Gravity &amp; Orbits</td>
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<td>Chemical Reactions</td>
<td>Resources &amp; Human Impact</td>
</tr>
<tr>
<td></td>
<td>Weather &amp; Climate</td>
<td>Electric and Magnetic Forces</td>
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<td>Rock Cycle</td>
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<td>Plate Tectonics</td>
<td>Explaining Matter with Elements, Atoms, and Molecules</td>
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<td>Earth’s Changing Surface</td>
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<td>Cell Division and Differentiation</td>
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Flavio Mendez  
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Questions?
Thank you to the sponsor of tonight's Web Seminar:

GE Foundation
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