Developing a Competitive Application for the Shell Science Teaching Award

Presented by: Greer Harvell

September 26, 2012
6:30 p.m. – 8:00 p.m. Eastern time
Introducing today’s presenters…

Greer Harvell
NSTA
Shell Science Teaching Award
Contents

• The Award
• Eligibility
• Award submission requirements
• Judging procedure
• Finalist expectations
• Lab Challenge brief
Poll Question

Are you planning to apply for the Shell Science Teaching Award?

A. Yes
B. No
C. Don’t know yet
What is the Shell Science Teaching Award (SSTA)?

The Shell Science Teaching Award is an annual award presented to one K-12 classroom science teacher for exemplary science teaching and learning in a classroom setting.
What do you receive as a SSTA winner?

- Recognition as an exemplary K-12 classroom teacher of science
- Expense paid trip to NSTA National Conference on Science Education
- Recognized among the leaders of science at National Conference
- $10,000 personal monetary award given at Teacher Awards Banquet
- Crystal clock
Who can apply for the SSTA?

- K–12 classroom science teachers
  - Classroom is defined as “in your environment”

- Major responsibilities include teaching science

- Taught for at least eight years, not including the current school year

- Must teach at a private or public school in the United States, U.S. Territories, Department of Defense schools, or in Canada

This award recognizes one outstanding classroom science teacher who has had a positive impact on his or her students, school, and community through exemplary science teaching.
Poll Question

How many years of experience do you have teaching science?

A. 0 – 5
B. 6 – 8
C. More than 9
Shell Science Teaching Award
Selection Process/Timeline

Step 1: Application due
   Due November 12

Step 2: Video - Ten Semifinalists
   Due January

Step 3: Site Visit - Three Finalists
   Due February
How do you apply for the Shell Science Teaching Award?

Visit [www.nsta.org](http://www.nsta.org) to download the application. The application contains the following:

- Nomination Form
- Resume/Vita
- Schedule
- Science Teaching Philosophy
- Instructional Method
- Letters of Support
- Judging Award Panel Checklist

Application should reflect National Science Teaching Standards and must include the information listed above.
Your Application

Got it covered! - stamp a green check ✔
More prep/need help - stamp a red x ✗

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nomination Form</td>
<td></td>
</tr>
<tr>
<td>Resume/Vita</td>
<td></td>
</tr>
<tr>
<td>Schedule</td>
<td></td>
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<tr>
<td>Science Teaching Philosophy</td>
<td></td>
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<tr>
<td>Instructional Method</td>
<td></td>
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<tr>
<td>Letters of Support</td>
<td></td>
</tr>
<tr>
<td>Judging Award Panel Checklist</td>
<td></td>
</tr>
</tbody>
</table>
How do you apply for the Shell Science Teaching Award?

Nomination Form

Tip: Be sure the application is signed!
How do you Apply for the Shell Science Teaching Award?

Resume/Vita - details teaching experience, professional activities, formal and continuing educations, awards, and publications

Tip: Use one-inch margins
How do you apply for the Shell Science Teaching Award?

Schedule (one week)
- Time (one sentence explanation)
- Subject
- Content/Thematic Base
- Student Demographics/Classification

**Elementary Sample Schedule**

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8am-9am</td>
<td>Reading</td>
<td>Reading</td>
<td>Reading</td>
<td>Reading</td>
<td>Reading</td>
</tr>
<tr>
<td>9:05am-10:00am</td>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td>Science</td>
<td>Science</td>
</tr>
<tr>
<td>10:05am-11:10am</td>
<td>Math</td>
<td>Math</td>
<td>Math</td>
<td>Math</td>
<td>Math</td>
</tr>
<tr>
<td>11:15am-12:10pm</td>
<td>Writing</td>
<td>Writing</td>
<td>Writing</td>
<td>Writing</td>
<td>Writing</td>
</tr>
<tr>
<td>12:10pm-12:45pm</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:45pm-1:35pm</td>
<td>Planning Special Area</td>
<td>Planning Special Area</td>
<td>Planning Special Area</td>
<td>Planning Special Area</td>
<td>Planning Special Area</td>
</tr>
<tr>
<td>1:35pm-2:15pm</td>
<td>Social Studies</td>
<td>SS</td>
<td>SS</td>
<td>SS</td>
<td>SS</td>
</tr>
<tr>
<td>2:20pm-3pm</td>
<td>Literature</td>
<td>Literature</td>
<td>Literature</td>
<td>Literature</td>
<td>Literature</td>
</tr>
</tbody>
</table>
How do you apply for the Shell Science Teaching Award?

Middle and High School Sample Schedule

**A / B schedule**

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>8am-9am</td>
<td>Chemistry lecture</td>
<td>Chem lab</td>
<td>Chem lecture</td>
<td>Chem lab</td>
<td>Chem lecture</td>
</tr>
<tr>
<td>9:05am-10:00am</td>
<td>Health 1</td>
<td>Health 2</td>
<td>Health 1</td>
<td>Health 2</td>
<td>Health 1</td>
</tr>
<tr>
<td>10:05am-11:10am</td>
<td>Alg I</td>
<td>Bio II</td>
<td>Alg I</td>
<td>Bio II</td>
<td>Alg I</td>
</tr>
<tr>
<td>11:15am-12:10pm</td>
<td>Chem lecture</td>
<td>Bio II lab</td>
<td>Chem lecture</td>
<td>Bio II lab</td>
<td>Chem lecture</td>
</tr>
<tr>
<td>12:10pm-12:45pm</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:45pm-1:35pm</td>
<td>Chem lab</td>
<td>Tutoring</td>
<td>Chem lab</td>
<td>tutoring</td>
<td>Chem lab</td>
</tr>
<tr>
<td>1:35pm-2:15pm</td>
<td>Planning</td>
<td>Planning</td>
<td>Planning</td>
<td>Planning</td>
<td>Planning</td>
</tr>
<tr>
<td>2:20pm-3pm</td>
<td>Geophysics</td>
<td>Robotics</td>
<td>Geophysics</td>
<td>Robotics</td>
<td>Geophysics</td>
</tr>
</tbody>
</table>

**Tips:**
- Be concise
- Show in chart format
How do you Apply for the Shell Science Teaching Award?

- Science Teaching Philosophy - Your philosophy of teaching statement should reflect your personal values and the needs of your students and your department. With the following questions in mind: To what end? By what means? To what degree? Why?
- To what end? - What are your objectives as a teacher?
- By what means? - Explain specific strategies, techniques, exercises, and include both what you have used in the past and are planning for future courses.
- To what degree? - Discuss how you intend to measure your effectiveness vis a vis the objectives and methods you have outlined.
- Why? - What, to you, are the great and wonderful rewards of teaching?
- Example: [www.celt.iastate.edu/teaching/philosophy.html](http://www.celt.iastate.edu/teaching/philosophy.html)

Tips:
- 1 page maximum
- Explain what you believe and why
# Your Application

## Science Teaching Philosophy

4 volunteers – use text box tool

<table>
<thead>
<tr>
<th>To what end? - What are your objectives as a teacher?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

<table>
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<tr>
<th>By what means? - Strategies, techniques, exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>To what degree? - How you measure your effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Why? – What are the rewards of teaching?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
Questions about the application?
How do you apply for the Shell Science Teaching Award?

- **Instructional Method** - Describe classroom activities that represent the nature of science; employ unique methods; increase knowledge; encourage scientific inquiry; make connections among science; show a connection to National Science Education Standards.

**Tips:**
- Be specific with examples
- Stay focused with descriptions
- Include community activities related to science education
Your Application

Instructional Method

Classroom activities – stamp where you have good examples

<table>
<thead>
<tr>
<th>Represent the nature of science</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Employ unique methods</td>
<td></td>
</tr>
<tr>
<td>Increase knowledge</td>
<td></td>
</tr>
<tr>
<td>Encourage scientific inquiry</td>
<td></td>
</tr>
<tr>
<td>Make connections among science</td>
<td></td>
</tr>
<tr>
<td>Show a connection to standards</td>
<td></td>
</tr>
</tbody>
</table>
How do you apply for the Shell Science Teaching Award?

• Letters of Support
  – 3 letters from individual or groups
  – Letters should be written for Shell Award
  – Emphasize strengths and accomplishments of application
  – Letters must be signed and dated

Tips:
• Letters must accompany packet
• Use letterhead when possible
• 2 pages maximum
Poll Question

What type of community support do you have?
A. None
B. Minimal
C. Moderate
D. Excellent
How do you apply for the Shell Science Teaching Award?

• Video - Upon receipt of your written application, NSTA will notify you to begin developing a 30-minute video illustrating your classroom teaching practices.

• Ten semi-finalists will be selected to submit videos.
  – Brief introduction/overview
  – Lesson(s) demonstrating instructional methods emphasizing methods expressed in application, with teaching philosophy
  – Addresses learners’ needs
  – Safety procedures
  – Student engagement
  – Assessment

Tips:
• Ensure sound and picture quality
• Accurately reflect what you want judges to observe
• Show student involvement
• Submit campus calendar
Your Application

Video

Use the chat window to discuss your ideas

• How will you introduce yourself in a unique way?
• How will the lesson you choose make you stand out?
• How can you show safety procedures and student engagement?
• How can you demonstrate assessment methods?
How do you apply for the Shell Science Teaching Award?

SITE VISIT

Ten semi-finalists will be reduced to three finalists for site visits.

NSTA schedules site visits.

Committee members will:

– Observe classroom environment and instruction
– Dialogue with administration, faculty/staff, students, parents (if applicable)
– Informal discussion with finalist

Tips:
• Classroom observation should reflect application and video
• Remember safety procedures
• Be natural, be yourself
Shell Science Teaching Award Judging Process

• **Application** (due November 12)
  – Panel receives copy of all applications
  – Panel discusses and selects top ten applications as ten semifinalists
  – NSTA notifies semifinalists to develop video

• **Video** (due in January)
  – Panel receives all semifinalist videos via private YouTube
  – Panel discusses and selects three finalists
  – NSTA notifies finalists to schedule site visit

• **Site Visit** (due in February)
  – Panel visits each finalist on campus
  – Panel dialogues with learning community
  – Panel has informal discussion with finalist

• **Final Selection** (due in February)
  – Panel discusses three site visits
  – Shell Science Teaching Award recipient selected
  – NSTA notifies recipient and finalists
Questions about the process?
What do we look for in a Shell Science Teaching Award winner and classroom?

- Life-long learner
- Innovated thinker
- Passionate
- Focus on students
- Takes science into community
- Evidence of science standards
- Enhances curriculum with real world applications
- Inquiry-based instruction
- Content knowledge
Your Application

What the Judges Look For

Stamp the top 3 qualities that will shine through in your application

<table>
<thead>
<tr>
<th>Quality</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Life-long learner</td>
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<tr>
<td>Innovated thinker</td>
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<td>Passionate</td>
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<tr>
<td>Inquiry-based instruction</td>
<td></td>
</tr>
<tr>
<td>Content knowledge</td>
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Expectations as a Shell Science Teaching Award Finalist

- Attend National Conference
- Attend Shell Science Teaching Award session and booth
- Be honored at Awards Banquet (Friday)
- Open to represent NSTA at fall regional conference
- Encourage others to apply for the Shell Science Teaching Award
Join the $10,000 Winners!

Past Winners
1991 David Stanley Ely, S.Burlington, VT
1992 Alfred W. Guenther, Carson, CA
1993 Linda J. Preston, Park City, UT
1994 Patrick G. Ehrman, Yakima, WA
1995 Wayne O. Williams, Tempe, AZ
1996 Jeb Schenck, Thermopolis, WY
1997 Steven Brehmer, Rochester, MN
1998 Ursula M. Sexton, Danville, CA
1999 David S. Thompson, Flagstaff, AZ
2000 James Calaway, Lawton, OK
2001 George Wolfe, Rochester, NY
2002 Peggy Carlisle, Jackson, MS
2003 Carmela Minaya, Milani, HI
2004 Sheryl Sotelo, Soldotna, Ak
2005 Lawrence O’Flynn, Up. ARL., TX
2006 Janice D. Ward, Charlotte, NC
2007 Olga Gueits, Cleveland, OH
2008 Greer Harvell, Shalimar, FL
2009 Deb Cornelison, Ada, OK
2010 Tamica Stubbs, Charlotte, NC
2011 Susie Edens, Ada, OK
2012 Joseph Ruhl, Lafayette, IN
Submitting the Application

• Application must be received by November 12, 2012
• Submit your application and supporting materials to Shell Science Teaching Award at one of the following:
  ➢ awards@nsta.org
  ➢ Shell Science Teaching Award
    NSTA
    1840 Wilson Blvd.
    Arlington, VA 22201

Upon receipt, applications become the property of NSTA. Applications will not be returned. Late applications will not be accepted.
Submitting Your Questions

You can send questions after the web seminar to: awards@nsta.org

Learn more at:
- www.nsta.org/shell
- www.shell.com/us/energizeyourfuture/
What else do you want to know?
Win a $20,000 lab makeover for your school!

Learn more about this rich professional development opportunity at

http://shellsciencelab.nsta.org
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Greer Harvell
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