SCIENCE LEADERS
BUILDING THE
FUTURE TOGETHER

PARTNERSHIPS,
 STEWARDSHIP, AND
 COLLABORATION

JUNE 23-26, 2015
TAMPA
RENAISSANCE INTERNATIONAL PLAZA HOTEL

32nd ANNUAL
SUMMER
LEADERSHIP
INSTITUTE
2015
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Welcome!

From the National Science Education Leadership Association (NSELA)

NSELA has recognized the importance of science leaders establishing strong community STEM partnerships to provide dynamic and enriching learning environments for students. To give you the tools needed to build these STEM ecosystems in your community, NSELA has carefully chosen keynote speakers who have expertise in building partnerships, stewardship, and collaboration in communities across the nation. These science leaders will provide participants with the knowledge and tools they need to return home ready to develop their own STEM ecosystems.

Please join me by building a STEM future together as we explore new ideas and strategies to build partnerships, stewardship, and collaboration together. I encourage you to develop your leadership network and join other networks while in Tampa to continue the work we start this week.

Elizabeth Mulkerrin, Ed.D.

NSELA President, 2015-2016
National Science Education Leadership Association

2015 Summer Leadership Institute

Day 1: Tuesday, June 23, 2015

8:00-11:30 am  Hillsborough River Watershed Boat Trip - Nature’s Classroom

10:00-5:00 pm  Registration Open – Costa del Sol Ballroom, Reception Area (front of Ballrooms E/F); Exhibits open from 11:00-7:00 pm

1:00-1:30 pm  Welcome & Institute Overview by Elizabeth Mulkerrin, NSELA President, Costa del Sol Ballroom

1:30-2:30 pm  Opening Keynote – Jan Morrison, Teaching Institute for Excellence in STEM
“STEM Learning is Everywhere…the STEM Funders Network Ecosystem Initiative”

2:30-2:45 pm  Break, Networking, and Exhibit Visits, Reception Area and Courtyard

2:45-4:45 pm  General Session I – Vic Sampson, University of Texas at Austin
“Argument-Driven Inquiry: A way to transform laboratory experiences so students can reach the performance expectations of the NGSS and the CCSS-ELA (Part I)”

4:45-5:00 pm  Closing and Daily Survey

6:00-7:30 pm  NSELA Reception – Featuring Barrington Irving, The Flying Classroom: Inviting Students to Soar, Costa del Sol Ballroom

Day 2: Wednesday, June 24, 2015

7:00-8:00 am  Breakfast, Costa del Sol Ballroom; Exhibits open from 7:30-3:30 pm

8:00-8:15 am  Welcome & Today’s Overview by Elizabeth Mulkerrin, NSELA President, Costa del Sol Ballroom

8:15-9:15 am  General Session II – Bryan Wunar, Museum of Science & Industry, Chicago, Costa del Sol Ballroom
“Informal Science Education: Building Partnerships to Support Science Teaching and Learning”

9:15-9:30 am  Break, Networking, and Exhibit Visits, Reception Area and Courtyard

9:30-10:45 am  General Session III – Vic Sampson, University of Texas at Austin, Costa del Sol Ballroom
“Argument-Driven Inquiry: A way to transform laboratory experiences so students can reach the performance expectations of the NGSS and the CCSS-ELA (Part II)”

10:45-11:15 am  Break, Networking, and Exhibit Visits, Reception Area and Courtyard

11:15-12:30 pm  Breakout Sessions A

A: “The Flying Classroom – Explore the STEM and Literacy Lessons” - Barrington Irving, Ballroom F

B: “Building Teachers’ Capacity to Link Assessment, Instruction, and Learning to Support Conceptual Understanding” - Page Keeley, Kalamata (2nd Floor)

C: “Implementing Argument-Driven Inquiry in a District: A How-to Guide” - Vic Sampson, Ballroom G
D: “STEM Learning is Everywhere… the STEM Funders Network Ecosystem Initiative” - Jan Morrison, **Ballroom H**

E: “A Path Forward for Your K-8 Science Program” – David Heller, Carolina Biological (sponsored session), **Genoa (2nd Floor)**

12:30-1:45 pm  **Lunch - Costa del Sol Ballroom**

**1:45-3:00 pm**  **Breakout Sessions B (Repeat of Morning Breakouts, except E)**

A: “The Flying Classroom – Explore the STEM and Literacy Lessons” - Barrington Irving, **Ballroom F**

B: “Building Teachers’ Capacity to Link Assessment, Instruction, and Learning to Support Conceptual Understanding” - Page Keeley, **Kalamata (2nd Floor)**

C: “Implementing Argument-Driven Inquiry in a District: A How-to Guide” - Vic Sampson, **Ballroom G**

D: “STEM Learning is Everywhere … the STEM Funders Network Ecosystem Initiative” - Jan Morrison, **Ballroom H**

E: “Oceans of Data Institute: Preparing Students for a Data-rich World” - Ruth Krumhansl, Oceans of Data Institute, (LAB-AIDS sponsored session), **Genoa (2nd Floor)**

3:00-3:15 pm  **Break, Networking, and Exhibit Visits, Reception Area and Courtyard**

3:15-4:15 pm  **General Session IV: Concluding Activity & Daily Survey - Costa del Sol Ballroom**

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**Day 3: Thursday, June 25, 2015**

7:00-8:00 am  **Breakfast - Costa del Sol Ballroom; Exhibits open from 7:30-2:30 pm**

8:00-8:15 am  **Welcome & Today’s Overview by Elizabeth Mulkerrin, NSELA President, Costa del Sol Ballroom**

**8:15-9:15 am**  **General Session V – Bryan Wunar, Museum of Science & Industry, Chicago**

“Connecting In School and Out of School Science”

**9:15-10:15 am**  **General Session VI – Stephen Pruitt, Achieve**

“Finding the Black Box in Science Education”

10:15-10:30 am  **Break, Networking, and Exhibit Visits, Reception Area and Courtyard**

**10:30-11:45 am**  **Breakout Sessions C**

A: “District Implementation – A Focus Group to Provide Guidance on the Challenges and Needs of Districts as They Implement NGSS,” Stephen Pruitt, **Ballroom E**

B: “Moving Towards 3-Dimensional Assessment: Using Hands-on Performance Tasks to Assess Mastery of Both the Science Practices and DCIs” - Deborah Tucker and Grant Gardner, **Kalamata (2nd Floor)**

C: “Exploring Community Partnerships to Build STEM Learning Ecosystems” - Bryan Wunar, **Ballroom H**

D: “Developing a Creative Culture” - Carolyn Hayes, **Livorna-Marbella (1st Floor, combined)**

E: “Engaging in the Practices of Engineers” - Terry Talley, Accelerate Learning-STEMscopes (sponsored session), **Genoa (2nd Floor)**

11:45-1:00 pm  **Lunch - Costa del Sol Ballroom**
1:00-2:15 pm  Breakout Sessions D
   A:  “Moving Towards 3-Dimensional Assessment: Using Hands-on Performance Tasks to Assess Mastery of Both the Science Practices and DCIs” - Deborah Tucker and Grant Gardner, Kalamata (2nd Floor)
   B:  “Out of School and Summer Learning Experiences” - Bryan Wunar, Ballroom H
   C:  “Developing a Creative Culture” - Carolyn Hayes, Livorna-Marbella (1st Floor, combined)
   D:  “Engaging in the Practices of Engineers” - Terry Talley, Accelerate Learning-STEMscopes (sponsored session), Genoa (2nd Floor)

2:15-2:30 pm  Break, Networking, and Exhibit Visits, Reception Area and Courtyard

2:30-4:00 pm  General Session VII: Closing and Final Thoughts – Setting the Stage for 2015/2016, Group/Team Planning, Costa del Sol Ballroom

6:30-9:00 pm  Evening Event at The Florida Aquarium – Sponsored by PASCO scientific “Creating STEM Ecosystems” Bus transportation will be available leaving from the hotel lobby

Day 4: Friday, June 26, 2015 – Field Trip Day

8:00-12:00 noon – Florida Aquarium Exploration Trip: Catamaran/Day Visit to the Aquarium (Optional, $20 cost). Stay for the weekend - additional attractions include Busch Gardens, Lowry Park Zoo, MOSI, FLAQ, area beaches, area parks, and many Orlando attractions.
INFORMATION ON FEATURED SPEAKERS AND BREAKOUT SESSIONS

Jan Morrison – Teaching Institute for Excellence in STEM (TIES)

“STEM Learning is Everywhere ...the STEM Funders Network Ecosystem Initiative”

Summary: The STEM Funders Network is offering twenty-five communities throughout the nation to organize their in-school and out-of-school STEM learning so that all children benefit from a robust STEM education K-12. This effort highlights those communities who have found their way to the ecosystem model and now find success in bringing this kind of education to all students. The SFN invited the National Research Council of the National Academies of Science to join as a partner and author a study to guide the thinking and actions for all STEM ecosystems—STEM Learning is Everywhere is available at the NRC web-site. We will have the chance to begin to understand what an ecosystem means and how to achieve this. There are so many wonderful and informative stories that enlighten all of us as we seek such successes for all of our children.

Vic Sampson – University of Texas at Austin

“Argument-Driven Inquiry: A way to transform laboratory experiences so students can reach the performance expectations of the NGSS and the CCSS-ELA”

Part 1 - Summary: This session is part one of a two part introduction to a new instructional approach called Argument-Driven Inquiry (ADI) that is designed to foster the development of science proficiency. ADI is an innovative approach to laboratory instruction that is based on current research about how people learn science and current recommendations for making lab activities more meaningful for students. ADI gives students an opportunity to learn how to use the core ideas, scientific practice, and crosscutting concepts of science to make sense of natural phenomena. This instructional approach also gives students an opportunity to learn how to read, write, and speak in the context of science. In this session, Dr. Victor Sampson will discuss the nature of current lab activities that students experience in middle and high school classrooms and why these lab activities need to change. He will then explain the stages of the ADI instructional model, how it was designed to address the shortcomings of current laboratory experiences, and how it is aligned with the NGSS and the CCSS-ELA.

Part 2 - Summary: This session is part two of a two part introduction to a new instructional approach called Argument-Driven Inquiry (ADI). ADI is an innovative approach to laboratory instruction that is based on current research about how people learn science and current recommendations for making lab activities more meaningful for students. ADI gives students an opportunity to learn how to use the core ideas, scientific practice, and crosscutting concepts of science to make sense of natural phenomena. This instructional approach also gives students an opportunity to learn how to read, write, and speak in the context of science. In this session, Dr. Victor Sampson will continue guiding participants through the example ADI lab investigation on the topic of climate change that was started during the previous session. This session will then end with an overview of what students learn when they participate in a series of ADI investigations over the course of a school year and a discussion about why ADI fosters the development of science proficiency.

“Implementing Argument Driven Inquiry in a District: A How-to Guide”

Summary: This session will provide an overview of what it will take to implement Argument-Driven Inquiry (ADI) in a school or district. Dr. Victor Sampson will begin the session by explaining how to ensure that the ADI is aligned with current district goals or initiatives and how ADI can be integrated into an existing science curriculum. He will then discuss ways to get teacher buy-in, address the concerns that teachers will likely have prior to adoption, and how to prepare teachers to make a change in the way they teach labs. Dr. Sampson will also explain productive ways to introduce teachers to ADI and how to best support teachers during the initial implementation process.

Bryan Wunar – Museum of Science and Industry, Chicago

“Informal Science Education: Building Partnerships to Support Science Teaching and Learning”

General Session II Summary: This session will introduce a redefined role for informal science education institutions in supporting science teaching and learning. Schools, communities, and families can come together in a STEM Learning Ecosystem to increase access for all students to participate in science learning opportunities.

“Connecting In School and Out of School Science”

General Session V Summary: The session will build from a growing research base to support the increasing value of science in out of school time learning for students. Afterschool and summer learning opportunities can impact science in the classroom and effectively extend learning beyond the traditional school day.
“Exploring Community Partnerships to Build STEM Learning Ecosystems”

Breakout Session: The workshop will introduce resources that schools can use to identify opportunities to partner with informal science education institutions and other community resources to support student learning. By exploring the connections between organizations, stakeholders, existing programs, and available resources, schools will develop a framework for a STEM Learning Ecosystem in their community.

“Out of School and Summer Learning Experiences”

Breakout Session: The workshop will engage participants in strategies to link in and out of school learning experiences. Approaches for engaging students and their families outside the traditional school day will be shared. Schools will explore how they can offer out of school time and summer experiences to reinforce classroom science learning.

Stephen Pruitt – Achieve

“Finding the Black Box in Science Education”

Summary: Stephen will share processes on how to think about instructional sequences that leverage the explanatory power of 3 dimensional learning in the NGSS to explain phenomena. Black boxes are areas of instruction that the student is expected to just memorize a piece of the “puzzle” and hope they make a connection later. In this session, Stephen will expand on how to use the NGSS performance expectations, foundation boxes, and evidence statements to develop instruction.

“District Implementation – A Focus Group to provide guidance on the challenges and needs of districts as they implement NGSS”

Breakout Summary: As more districts work toward implementation of the NGSS, there is a greater call for support at the district level. Stephen invites all interested to come and discuss districts’ needs, wants, and wishes. Achieve is in the process of developing a district implementation guide and discussing a district strategy for NGSS. To ensure the work will deliver what districts need, this session will be an opportunity for NSELA members to give direction to an NGSS district implementation strategy.

Carolyn Hayes – National Science Teachers Association, President, 2015-16

“Developing a Creative Culture”

Summary: Encouraging our students to think creatively by asking questions and pursuing varied strategies is a valuable component of learning science as a process. Participants will practice strategies to develop a creative culture for science classrooms.

Page Keeley – National Science Teachers Association, Past President and Author

“Building Teachers’ Capacity to Link Assessment, Instruction, and Learning to Support Conceptual Understanding”

Summary: Formative assessment is a process that informs instruction and supports learning, with instructional decisions made by the teacher or learning decisions made by the student being at the heart of the process. There is a strong and substantive body of research showing that effective use of formative assessment has a significant impact on learning. It is research-rich; yet, practice-poor! This session will explore tools, resources, and strategies leaders can use to build the capacity of teachers to uncover and use students’ ideas throughout a sequence of instruction. The focus will be on using formative assessment to facilitate conceptual change, support integration of content and practices, and change the culture of the classroom to one where all ideas are valued and used to construct understanding.

Barrington Irving – The Flying Classroom (Also Opening Reception Keynote Speaker)

“The Flying Classroom – Explore the STEM and Literacy Lessons”

Summary: There is a demonstrated need and demand for improved learning programs that will boost achievement and engagement in crucial academic subjects. Captain Barrington Irving will discuss the tools needed to first and foremost, contextualize STEM topics in real-world and student-relevant challenges; extensive research shows that students absorb knowledge and achieve better scores when STEM curricula incorporates lessons that connect to real-world issues and events.
Deborah Tucker – Independent Science Education Consultant
Grant Gardner – Assessment Services, Inc., President

“Moving Towards 3-Dimensional Assessment: Using Hands-on Performance Tasks to Assess Mastery of Both the Science Practices and DCIs”

Summary: “Help teachers develop appropriate formative assessment strategies.” (Recommendation 14, Guide to Implementing the Next Generation Science Standards, NRC, 2015). As a leader in science education, we are often charged with facilitating improvement in teacher pedagogical content knowledge. This session provides strategies for developing formative assessment tools and processes. And for leaders, this session provides resources and rationale to use as you introduce these changes in assessment called for by the NRC Framework, the NRC Developing Assessments for the Next Generation Science Standards, and the NGSS. Session participants will engage in a hands-on performance task, consider the formative assessment implications of this type of assessment, and reflect on their use of hands-on performance assessment in their own learning environment.

Because science is more than a body of knowledge, but rather how we know what we know, student inquiry in science must overtly link together the practices with the DCIs. This session addresses the linking question, “How does this practice(s) help build student conceptual understanding?” Hands-on performance tasks assess not just science practices and DCIs, but science conceptual understanding and application as well. Hands-on tasks also serve as comprehensive assessment tools integrating real-world learning including literacy and mathematics skills. With hands-on performance assessment tasks, students are provided with apparatus and conduct an investigation and communicate findings. Session participants will complete a hands-on performance task (read background information; predict; test variables using materials provided; collect and analyze data; create explanations based on collected data; critique predictions based on data collected; and, apply learnings to a real-world scenario); score their own responses; and, review samples of student work.

SPONSORED SESSIONS

Accelerate Learning – STEMscopes – Terry Talley, Professional Development Director

“Engaging in the Practices of Engineers”

Summary: The E in STEM is about using the Engineering Design Process (EDP) to solve problems. Often times, when using an engineering challenge, teachers get bogged down in the management and facilitation that turns a challenge into a competition. The competition may cause a loss of focus on the solution, the standard, and the rigorous science content. Engineering Challenges teach learners how to use the 21st Century Skill of Persistence by reflecting on feedback and failure to gain mastery. Join us for an interactive, engaging, and hands-on session where the EDP is investigated, collaboration and consensus are challenged, and facilitation techniques are modeled for STEM success and student achievement.

LAB-AIDS – Ruth Krumhansl, Oceans of Data Institute, Education Development Center, Director

“Oceans of Data Institute: Preparing Students for a Data-rich World”

Summary: Today’s students will graduate into a world where oceans of data are available to influence and drive decision-making. When the Oceans of Data Institute (http://oceansofdata.org) surveyed 300+ students from community college and university settings, 85% of respondents agreed or strongly agreed that the ability to make sense of data is important to get a good job and will help in their future careers. An overwhelming 90% of respondents agreed or strongly agreed that learning to make sense of data will help them be more effective and informed citizens. But how well are we preparing them for this data-driven future? This workshop will highlight one of the key resources of the Oceans of Data Institute: EDC Earth Science, a full-year high school earth science curriculum developed with support from the National Science Foundation. Fully aligned with the NGSS Framework, EDC Earth Science engages students in solving real world problems through authentic case studies, stories from the history of science, and a broad variety of data-rich activities.

Carolina – David Heller, Director of Development K-8

“A Path Forward for Your K-8 Science Program”

Summary: Whether it is incorporating NGSS, focusing on STEM, or broadening the inquiry skills of your staff, the path forward is not always clear. Is your staff already comfortable incorporating scientific practices in their instruction? Are they just “reading about science” instead of doing science? Has science instruction taken a back seat due to overcrowded days? No matter what path you are navigating, Carolina Biological Supply Company can help with new units written with NGSS, STEM, and inquiry-based instruction in mind. Come review new materials for K-8 science from the Smithsonian and Carolina.
Registration: In prefunction space outside Costa Del Sol Ballroom

General Sessions: Costa Del Sol Ballrooms (E-F-G-H together)

Breakout Sessions:
- Ballrooms (broken up – E, F, G, H),
- 1st Floor Livorno/Mabella (combined)
- 2nd Floor Genoa and Kalamata
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National Science Education Leadership Association

2015 Outstanding Leadership In Science Education Award

This prestigious award recognizes and honors an NSELA member, who through their professional work, has demonstrated outstanding leadership in science education at the school, district, county, regional, and/or national level.

This award is presented at the NSELA breakfast, held during the annual NSTA National Conference. The award is accompanied by a check for $1,000 and a plaque donated by Pearson.

Kathryn DiRanna
Statewide Director, K-12 Alliance, WestEd
California

Kathy DiRanna, Statewide Director, K-12 Alliance, WestEd, has demonstrated exemplary leadership in science education for nearly thirty years. Throughout her long-term work, Kathy continues to inspire others by both providing leadership and "growing" leaders. She is actively engaged with her team in planning and implementing a professional development model focused on content, pedagogy, and leadership. Since 1987, many of the leadership development strategies spearheaded by Kathy and her team have been implemented via the K-12 Alliance and are not only used in California but across the nation. One specific example is the WestEd National Academy for Science and Mathematics Education Leadership where Kathy, as a founding member of the team, provided professional development for leaders from many states. Some of these participants have become leaders for NSELA, NSTA, CSSS and other organizations in tandem with leadership at their state, regional, or local level. Kathy has directed many grants in California and co-developed grants with partners at the national level. Kathy is directing a new project, California K-8 NGSS Early Implementation Initiative, which employs successful K-12 Alliance strategies.

Kathy and her K-12 Alliance colleagues have worked with more than 6,000 schools, resulting in impacting thousands of teachers and millions of students for access to more effective science education. Evaluation results demonstrate that both student achievement on classroom assessments and state achievement tests in mathematics and science for grades 5 and 8 have increased, most notably in schools with high proportions of disadvantaged children.

A quote from Kathy's nominator states, "It is the day-to-day work that she pursues that continues to impress me. Whether it's presenting at the 2014 NSELA PDI and annually at the California Science Educators Conference and NSTA conferences, influencing policy by working with the California Department of Education and California County Science Supervisors, or pulling new-to-leadership teachers aside to provide mentoring and advice, Kathy is that leader we all strive to emulate."

In 2011, Kathy was awarded the Susan Loucks-Horsley Award for Building Communities of Learners from Learning Forward. In 1998, she received the California Science Teachers Association Margaret Nicholson for Distinguished Service to Science Education Award.

Other notable accomplishments include co-authoring the Data Coaches Guide and the lead or a contributing author to other publications. She served as Program Chair for an NSTA National Conference and a Learning Forward Conference.

NSELA and Pearson are proud to honor Kathy's incredible leadership and her passion for nurturing other science education leaders. Kathy is a great role model for education leaders on how to sustain projects after grant money is gone.
National Science Education Leadership Association

2015 Outstanding Administrative Support Award

This prestigious award recognizes and honors an outstanding administrator who, through their professional work, has demonstrated exemplary support for science education at the school, district, and/or county level. This award honors an administrator whose primary responsibility is outside the area of science instruction.

The award is presented at the NSELA luncheon held at the annual NSELA Professional Development Institute. The award is accompanied by a check for $1,000 and a plaque donated by Kendall/Hunt Publishing Company.

Manley Warren Midgett
North Carolina

Manley Midgett is an inspirational administrative science support leader throughout North Carolina. Currently Manley is in a new administrative position as the Outreach Coordinator for the North Carolina Science Fair Foundation. Through his administrative support work in this position, he promotes inquiry-based instruction, STEM activities, and student research by training teachers, seeking mentors, and providing opportunities for students. He is also a Consultant and Tournament Director with the North Carolina Science Olympiad to promote STEM challenges during and after school. These two positions impact over 750 schools in the state.

He recently retired from his position as Instructional Review Coach for the North Carolina Department of Public Instruction, District and School Transformation Division. In this position he conducted comprehensive needs assessments for low-achieving schools and assisted teachers and school leaders with improvement efforts. During follow-up professional development sessions, science activities were used with teachers to demonstrate how to improve the effectiveness of instruction. All teachers in these schools from 5 counties were shown how to use science to integrate and strengthen mathematics and language skills across the curriculum. By request, teachers at 19 schools in Onslow County were shown how to integrate science, technology, math, and engineering in project-based instruction. The sessions were so successful, the county has decided to hold a competition among all the schools this year and to even invite surrounding counties to participate.

A quote from Manley’s supervisor: "Manley’s love of science is contagious and his zest for leading others to share in his passion is admirable. For example, he has taken the initiative to develop differentiated professional development modules for teachers and school leaders across the state. Manley masterfully infuses his science background into the work of conducting needs assessments and educating teachers on how to engage students effectively." His nominator wrote, “In his administrative capacity, Manley helped teachers move beyond ‘what they’ve always done’ as he assisted them with their task of improving the achievement of their students.”

Over his long education career of almost 40 years, Manley has many other notable accomplishments and awards. A few examples will illustrate his long-term commitment to science education. He was Project Coordinator for the Northeast Math/Science Partnership (MSP), Associate Director for the Coastal Rural Systemic Initiative, and Science Methods Instructor at Meredith College and North Carolina State University. Manley is a prolific writer and creator of curriculum programs. He currently serves as NSTA District VI Director. His awards are numerous. For example he received the Outstanding Leadership and Service Award from NCSTA, National Service Award from the National Science Olympiad, and NC Science Education Leadership Award from the NC Science Leadership Association.

NSELA and Kendall Hunt are proud to present this award to Manley. His leadership and administrative support continue to inspire and motivate educators in science and other disciplines.
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Craig T. Gabler, Retiring President
Keri Randolph, President Elect
Christine Royce, Treasurer
Trisha Herminghaus, Secretary

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Michelle Hughes, Region B Director
Page Keeley, Region C Director
Bruce Jones, Region D Director
Kirsten Smith, Region E Director
Brian Kruse, Region F Director

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Jennifer Gottlieb, Affiliate Chair
Beth Harris, Webmaster
Paul Keidel, Membership Chair
Nancy Kellogg, Awards Chair
Vicki Massey, Diversity Chair
Jean May-Brett, Finance Chair
Kevin Niemi, Informal Science Chair
Larry Plank, Professional Development Coordinator
Kenneth Roy, Safety Compliance Officer
Joyce Tugel, Nominations/Elections Chair
Brenda Wojnowski, Science Education Journal Editor

Kenneth W. Heydrick, Executive Director

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Our Mission

NSELA catalyzes leadership to maximize effective science teaching and learning in a complex and changing environment.

We connect and support emerging and experienced leaders by providing

- high-quality professional development,
- a collegial network,
- access to research and resources, and
- a voice for leaders in science education

The National Science Education Leadership Association (NSELA) was formed in 1959 to meet a need to develop science education leadership for K - 16 school systems. NSELA members have a strong interest in advances in a broad array of topics including

- student learning,
- safety,
- curriculum,
- technology,
- professional development,
- assessment,
- inquiry, and
- science education reform.

NSELA is an affiliate of the National Science Teachers Association (NSTA), the Triangle Coalition, and the American Association for the Advancement of Science (AAAS).
## PAST NSELA AWARD RECIPIENTS

### Outstanding Leadership in Science Education Award Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>Kathy DiRanna</td>
<td>California</td>
</tr>
<tr>
<td>2014</td>
<td>Joanne Vasquez</td>
<td>Arizona</td>
</tr>
<tr>
<td>2013</td>
<td>Page Keeley</td>
<td>Maine</td>
</tr>
<tr>
<td>2012</td>
<td>Robert Yager</td>
<td>Iowa</td>
</tr>
<tr>
<td>2011</td>
<td>Jason Painter</td>
<td>North Carolina</td>
</tr>
<tr>
<td>2010</td>
<td>Thomas T. Peters</td>
<td>South Carolina</td>
</tr>
<tr>
<td>2009</td>
<td>Sandra West</td>
<td>Texas</td>
</tr>
<tr>
<td>2008</td>
<td>Nancy Kellogg</td>
<td>Colorado</td>
</tr>
<tr>
<td>2007</td>
<td>Marjorie King</td>
<td>Louisiana</td>
</tr>
<tr>
<td>2006</td>
<td>Jack Rhoton</td>
<td>Tennessee</td>
</tr>
<tr>
<td>2005</td>
<td>Kenn Heydrick</td>
<td>Texas</td>
</tr>
<tr>
<td>2004</td>
<td>Jean May-Brett</td>
<td>Louisiana</td>
</tr>
<tr>
<td>2003</td>
<td>Kenneth Roy</td>
<td>Connecticut</td>
</tr>
<tr>
<td>2002</td>
<td>Pam T. Henson</td>
<td>Alabama</td>
</tr>
<tr>
<td>2001</td>
<td>Gerard Putz</td>
<td>Michigan</td>
</tr>
<tr>
<td>2000</td>
<td>Pat Bowers</td>
<td>North Carolina</td>
</tr>
<tr>
<td>1999</td>
<td>Kathleen Sparrow</td>
<td>Ohio</td>
</tr>
<tr>
<td>1998</td>
<td>LaMoine L. Motz</td>
<td>Michigan</td>
</tr>
<tr>
<td>1997</td>
<td>Tom Fangman</td>
<td>New Jersey</td>
</tr>
<tr>
<td>1996</td>
<td>Susan Cory</td>
<td>Texas</td>
</tr>
<tr>
<td>1995</td>
<td>Thomasena Woods</td>
<td>VA</td>
</tr>
<tr>
<td>1994</td>
<td>Larry Small</td>
<td>Illinois</td>
</tr>
<tr>
<td>1993</td>
<td>Susan Sprague</td>
<td>Arizona</td>
</tr>
<tr>
<td>1992</td>
<td>Dallas Maddron</td>
<td>Florida</td>
</tr>
<tr>
<td>1991</td>
<td>Merik Aaron</td>
<td>New York</td>
</tr>
<tr>
<td>1990</td>
<td>Ron Converse</td>
<td>Texas</td>
</tr>
<tr>
<td>1989</td>
<td>Jeane Dughi</td>
<td>Virginia</td>
</tr>
<tr>
<td>1988</td>
<td>Garland Johnson</td>
<td>California</td>
</tr>
<tr>
<td>1987</td>
<td>Gerry Madrazo</td>
<td>North Carolina</td>
</tr>
<tr>
<td>1986</td>
<td>Charles Beehler</td>
<td>Pennsylvania</td>
</tr>
<tr>
<td>1985</td>
<td>Gabrielle Edward</td>
<td>New York</td>
</tr>
<tr>
<td>1984</td>
<td>Joseph G. Krajkovich</td>
<td>New Jersey</td>
</tr>
<tr>
<td>1983</td>
<td>Leroy Lee</td>
<td>Wisconsin</td>
</tr>
<tr>
<td>1982</td>
<td>Jerry Resnick</td>
<td>New York</td>
</tr>
<tr>
<td>1981</td>
<td>Charles Hardy</td>
<td>Washington</td>
</tr>
<tr>
<td>1980</td>
<td>Francis X. Finigan</td>
<td>Massachusetts</td>
</tr>
<tr>
<td>1979</td>
<td>Harold Pratt</td>
<td>Colorado</td>
</tr>
</tbody>
</table>

### Outstanding Administrative Support Award Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>Manley Midgett</td>
<td>North Carolina</td>
</tr>
<tr>
<td>2014</td>
<td>Tom Manke</td>
<td>Washington</td>
</tr>
<tr>
<td>2013</td>
<td>Ann Blakeney Clark</td>
<td>North Carolina</td>
</tr>
<tr>
<td>2012</td>
<td>Nanciann Gatta</td>
<td>Illinois</td>
</tr>
<tr>
<td>2011</td>
<td>Danny Bell</td>
<td>Louisiana</td>
</tr>
<tr>
<td>2010</td>
<td>Steve Gonzalez</td>
<td>California</td>
</tr>
<tr>
<td>2009</td>
<td>Ruth Ann Carr</td>
<td>Oklahoma</td>
</tr>
<tr>
<td>2008</td>
<td>Ray J. Bandlow</td>
<td>New Jersey</td>
</tr>
<tr>
<td>2007</td>
<td>Pamela T. Henson</td>
<td>Alabama</td>
</tr>
<tr>
<td>2006</td>
<td>Gene Harris</td>
<td>Ohio</td>
</tr>
<tr>
<td>2005</td>
<td>Michael Klentschy</td>
<td>California</td>
</tr>
<tr>
<td>2004</td>
<td>Larry Mabe</td>
<td>North Carolina</td>
</tr>
<tr>
<td>2003</td>
<td>No Award</td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td>Sheldon Berman</td>
<td>Massachusetts</td>
</tr>
<tr>
<td>2001</td>
<td>Ernest Bibby</td>
<td>North Carolina</td>
</tr>
<tr>
<td>2000</td>
<td>Jerry Valadez</td>
<td>California</td>
</tr>
<tr>
<td>1999</td>
<td>Renee Williams</td>
<td>Texas</td>
</tr>
<tr>
<td>1998</td>
<td>Wayne Lett</td>
<td>Virginia</td>
</tr>
</tbody>
</table>

### Emerging Science Education Leadership Scholarship Recipients

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>Holly Steele</td>
<td>California</td>
</tr>
<tr>
<td>2014</td>
<td>Bruce Jones</td>
<td>Arizona</td>
</tr>
<tr>
<td>2014</td>
<td>Tracy Staley</td>
<td>Florida</td>
</tr>
</tbody>
</table>
NSELA PAST PRESIDENTS

2013-2014  Darlene Ryan, North Carolina
2012-2013  Beth Allan, Oklahoma
2011-2012  Janey Kaufmann, Arizona
2010-2011  Susan Koba, Nebraska
2009-2010  Brenda Wojnowski, Texas
2008-2009  Linda Atkinson, Oklahoma
2007-2008  Bob Siggens, Massachusetts
2006-2007  Jerry Valadez, California
2005-2006  Joanne Vasquez, Arizona
2004-2005  Patricia Shane, North Carolina
2003-2004  Jack Rhoton, Tennessee
2002-2003  Nicola Micozzi, Jr., Massachusetts
2001-2002  Kenn Heydrick, Texas
2000-2001  Kathleen Sparrow, Ohio
1999-2000  Jerry Doyle, Wisconsin
1998-1999  Becky Litherland, Missouri
1997-1998  Thomasena Woods, Virginia
1996-1997  Nancy Kellogg, Colorado
1995-1996  Jane Hazen, Ohio
1994-1995  Michael Jackson, North Carolina
1993-1994  Jeane Dughii, Virginia
1992-1993  Philip Gay, California
1990-1991  Garland Johnson, California
1989-1990  John Bartley, Pennsylvania
1988-1989  Emma Walton, Alaska
1986-1987  Merik Aaron, New York
1985-1986  Harold Pratt, Colorado
1984-1985  Jerry Resnick, New York
1983-1984  Richard Clark, Minnesota
1982-1983  LaMoine Motz, Michigan
1981-1982  Gary Downs, Iowa
1979-1980  Robert Dean, California
1978-1979  Charles Butterfield, New Jersey
1977-1978  Walter Knighton, Pennsylvania
1976-1977  James Wailes, Colorado
1975-1976  Warren Classon, Iowa
1974-1975  Serafino Giuliani, California
1973-1974  Edwin Smith, Ohio
1972-1973  Kenneth Horn, Colorado
1971-1972  John Rosemergy, Michigan
1970-1971  Francis Finigan, Massachusetts
1967-1968  A.C. Brewer, Missouri
1966-1967  Annie Sue Brown, Georgia
1965-1966  J. Harvey Shufts, Minnesota
1964-1965  Donald Stotler, Oregon
1963-1964  Ralph Keirstead, New England
1962-1963  Etra Palmer, Maryland
1961-1962  Elmer McDaid, Michigan
1959-1960  Ad Hoc Chair, Kenneth Vordenburg, Ohio

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2017 – Omaha Nebraska – June 28-July 1

www.NSELA.org

LOOKING FORWARD TO 2016 - NSELA Professional Development Themes

Leaders serve as change agents in an ever-changing environment.

Nashville – March 30, 2016 – The Sounds of Change
Strand A: STEM Career Readiness
Strand B: Leadership in Curriculum
  o Project-based Learning—Experiential Learning
  o Implementation of Effective Instructional Practices
Strand C: Listening as a Leader – Communicating and Motivating Your Colleagues

San Diego – June 28-July 1, 2016 - Leadership in a Sea of Change
Strand A: Understanding the Change Process
Strand B: Building a Culture for Change
Strand C: Making Decisions Based on Evidence
Attention Science Educators!

Bright Ideas STEM from Today’s Youth is a multi-state competition where students dream up the coolest inventions to make their own life, community or even the world, more awesome. They show how science, technology, engineering and math can bring their ideas to life.

In March, six 2014 finalists — one from each of the six Bright House Networks service areas — competed head-to-head for the chance to work with leading innovation firm Fahrenheit 212 in New York.

The 2015 Competition is Just Around the Corner!

Will this year’s winning inspiration start in your classroom?

www.brighthouse.com/brightideas
Please join us for the following

**NSELA Events in Nashville – Omni Hotel**

*Wednesday, March 30*

Professional Development Institute – "The Sounds of Change – Nashville" (full day)
- Strand A: STEM Career Readiness
- Strand B: Leadership in Curriculum
  - Project-based Learning-- Experiential Learning
  - Implementation of Effective Instructional Practices
- Strand C: Listening as a Leader – Communicating and Motivating Your Colleagues

NSELA/CSSS Evening Reception

#nsela

*Thursday, March 31*

NSELA Annual Breakfast & Membership Meeting

*Friday, April 1*

NSELA/ASTE Annual Luncheon, Keynote Speaker, & Honor Local Heroes Celebration