126th Annual
CONFERENCE AND GENERAL MEETING
Friday, November 5 to Sunday, November 7, 2021

Sharing the Stories of Science

2021 Conference Program
In an effort to keep all of our members and guests safe, STANYS will require ALL Annual Conference participants to either show proof of being fully vaccinated against COVID-19 (CDC COVID-19 Vaccine Record Card or NYS Excelsior Pass) OR proof of a negative COVID-19 test.

• Individuals are considered fully vaccinated against COVID-19 when more than two weeks have passed since they received the second dose in a two-dose series (Pfizer-BioNTech or Moderna), or more than two weeks have passed since they received a single-dose vaccine (Johnson & Johnson/Janssen).

• Approved COVID-19 tests include a nucleic acid amplification test (e.g., PCR test) or a viral antigen test that is approved by the local health authority. Test results must be within 72 hours of your arrival at the Annual Conference.

• For the safety of all attendees, and given the current uptick in Delta Variant cases, the STANYS organization asks that individuals wear masks.

• In addition, we will be following all local, NYSDOH, and CDC COVID-19 guidelines as they continue to evolve.
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ENGINEERING

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There will be an official STANYS photographer working at the conference. Attendee photographs may be included in future STANYS publications or website posts.

For current Conference Information see our web site: stanys.org/conference

This is an annual publication of the Science Teachers Association of New York State.
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DISCLAIMER: Views expressed in conference workshops are those of the presenters and may not reflect STANYS policy.
September 15, 2021

Dear Science Educators,

The New York State Education Department welcomes the opportunity to join with STANYS in their mission to promote excellence in science education for all students and strengthen professional learning and expertise for all teachers of science. This year’s 126th Annual Conference and General Meeting of the Science Teachers Association of New York State (STANYS) is being held in Rochester, New York, November 5th-7th, 2021. Following Covid-19 protocols, the 126th STANYS Annual Conference will occur in-person and feature hundreds of hands-on workshops, seminars, and demonstrations addressing the conference theme, **Sharing the Stories of Science.**

This year’s conference theme will highlight the use of instructional storylines in science education. Ms. Dora Kastel from New Visions for Public Schools will be the Keynote speaker, and in addition, Ms. Kastel and her team will facilitate a Professional Development/Professional Learning (PD/PL) event on the Friday, Nov. 5th prior to the conference on using storyline examples from Biology and Earth and Space Sciences. On Saturday, STANYS is offering a remote PD/PL experience for members and non-members who cannot attend this in-person event. The remote PD/PL experience will be facilitated by Dr. Jason Crean and Kristin Radamaker from *All Species Education* and will showcase the use of storylines in the science classroom.

The New York State Education Department encourages educators to participate in this event so that they may further their pedagogical skills that will then strengthen their local science programs and content knowledge. I welcome this opportunity to join with STANYS in support of science education and appreciate all the continued efforts that raise standards and achievement in science, mathematics, and technology education. It has been an unprecedented time in education and in our world and I thank you all for the strength and resilience you have shown to the students of New York State. I wish you all a safe and healthy school year!

Please visit the STANYS website [http://www.stanys.org/](http://www.stanys.org/) for conference registration information and the benefits of becoming a STANYS member. Enjoy the conference!

Sincerely,

Marybeth Casey
Assistant Commissioner
Office of Curriculum & Instruction and Early Learning
New York State Education Department
Dear Colleagues,

It is with much joy and anticipation that I welcome you to the 126th Annual Science Teacher Association of New York State Conference. And what a welcome it will be! Once again, we are able to come together, live and in-person, to spend time with friends, colleagues, and new acquaintances. After a year of educational loneliness, we are ready for great conversations with peers, participating in innovative professional development sessions, and taking inspiration from respected educators. Perhaps we are like the butterfly emerging from its chrysalis. After a time of isolation, we will gain strength from our struggle as we emerge ready to spread our wings. Just as the butterfly's journey is about transformation, so too can be your membership in the STANYS organization. I hope you immerse yourself in all that this conference has to offer.

Over the next few days, you might notice that the conference theme is Sharing the Stories of Science. While we all have a few stories about our past year, the stories I hope we share are the ones written by our students through instructional storylines. In storylining, students work through a series of cohesive lessons, driven by their own questions, that entwine the CCCs and SEPs as students try to make sense of a given phenomena. Unfortunately, the implementation of NYS P-12 Science Learning Standards in many districts may have been delayed due to remote or hybrid schedules. Despite potential setbacks, we must re-invigorate ourselves to phenomena-based teaching and learning by aligning our instruction to the NYS P-12 Science Learning Standards. Revised in April 2021, NYSED released its timeline for the Development, Adoption, and Implementation of the NYS P-12 SLS. This timeline indicates that June 2023 will see the first administration of the new elementary grade 5 and intermediate grade 8 science tests in conjunction with the last administration of the 1996 MST aligned exam. While 2023 is a transitional year in assessment, the 2021-2022 and 2022-2023 school years will play a critical role in addressing instruction gaps or pauses created by the prioritization of learning standards due to the pandemic. How do we address these gaps or pauses in order to ready our students for the NYS P-12 SLS based exams starting in 2023? One strategy could be the use of storylines. Building upon the questions asked by our students while observing a phenomena, instructors will have a sense of a student's “KWL” status. While designing a coherent series of lessons, teachers can take the opportunity to include the content gaps necessary for student sensemaking. To help support the idea of instructional storylines, STANYS and New Visions for Public Schools partnered for a pre-conference professional learning event on Friday, Nov. 5th. Ms. Dora Kastel and her associates shared strategies to implement storylines anchored in Earth Science and Biology content. If you were unable to attend the Friday workshop, Ms. Kastel will offer the Keynote address on storylining during our Saturday evening membership meeting.

Sharing the Stories of Science was also the focus of the summer professional learning opportunity. Held virtually, Dr. Jason Crean and his associates from All Species Education,
worked with STANYS members, DALs and SARs on the implementation of instructional storylines. Many of the DALS and SARs are offering storyline sessions during the conference and are excited to share their experiences with you. Overall, it should be a wonderful and fitting theme. Together, we will be ready to write storylining into the next chapter in our educational careers.

As you may be aware by now, our 126th Annual Conference has been shortened by one day. Decisions in regard to this conference needed to be made during the Spring of 2021. Based upon the protocols in place at that time, the executive committee and conference planning committee took a more conservative approach to the 2021 conference to ensure the health and safety of our membership while retaining fiduciary responsibility to the Board of Directors. This conference will likely look a bit different than we are used to seeing. Rest assured, this conference will still provide the high-quality professional learning experiences our members expect and deserve.

But not to worry, all the favorites are still happening! Science Trivia opens the conference on Friday evening. The Hall of Sections will feature the “most creative Section t-shirt design” contest, and the geeky t-shirt competition will still take place. Our Excellence in Teaching Award winners, newest Fellows and PAEMST winners will be celebrated. The wine and cheese reception, visits to the vendor hall and “the raffle” are a conference tradition. New this year, Casino night! The President’s reception will happen with a coffee hour to meet with the executive committee Sunday morning capping off a long list of “must dos.” But most importantly, innovative, and relevant professional development will be shared over the next two days. To support ALL students to participate in and learn science, we “must be present to win.” I hope you find this year’s conference transformational in your commitment to promote excellence in science education.

In closing, I thank you for attending the 126th Annual Conference and I wish you a wonderful conference adventure. Please connect and reconnect with the amazing educators attending this event and Share your Stories of Science with one another!

Shelly Hinchliffe
President 2021-22
### Friday, November 5

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:30 am – 3:30 pm</td>
<td><strong>New Visions: Using Student Centered Phenomena-Driven Storylines to Support the Shift to NYSSLS</strong>, Hyatt Grand ABC includes continental breakfast and buffet luncheon</td>
</tr>
<tr>
<td>9 am – 4 pm</td>
<td><strong>STANYS Board of Directors Meeting</strong>: Hyatt Regency Ballroom</td>
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<tr>
<td>11 am – 3 pm</td>
<td><strong>Field trip: Exploring Drumlins at Chimney Bluffs State Park</strong></td>
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<tr>
<td>1 – 5 pm</td>
<td><strong>Conference Registration</strong>: Hyatt Frederick Douglass Room (2nd floor)</td>
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<tr>
<td>6 - 8:30 pm</td>
<td><strong>Special Event: Dinner and Trivia Contest</strong> – Hyatt Grand Ballroom*</td>
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<tr>
<td>9 – 10 pm</td>
<td><strong>Conference Assistants Orientation</strong>: Hyatt Fredrick Douglass Room (2nd floor)</td>
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<tr>
<td>9 pm – 2 am</td>
<td><strong>Cash Bar</strong>, Lobby Bar Corso at Hyatt</td>
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### Saturday, November 6

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7 am – 12 pm</td>
<td><strong>Concession area</strong>, Coffee Cart, Convention Center Lower Level</td>
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<tr>
<td>7 – 8:30 am</td>
<td><strong>First Time Attendees Breakfast</strong>, Hyatt Grand Ballroom EFG, Session N-51*, Sponsored by STANYS</td>
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<tr>
<td>7 – 9 am</td>
<td><strong>Boxed Breakfast</strong>, Hyatt Main Street Gallery</td>
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<tr>
<td>8 – 9 am</td>
<td><strong>Committee Meetings</strong> in Convention Center, Highland Rooms</td>
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<tr>
<td>8 am – 3 pm</td>
<td><strong>Conference Registration</strong>: Convention Center Lobby</td>
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<tr>
<td>9:30 – 10:30 am</td>
<td><strong>Session A</strong></td>
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<tr>
<td>11 am – 12 pm</td>
<td><strong>Session B</strong></td>
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<tr>
<td>11:30 am – 3 pm</td>
<td><strong>Concession Area open</strong>: Convention Center, Empire Hall South (Exhibit Area)</td>
</tr>
<tr>
<td><strong>12 – 1:30 pm</strong></td>
<td><strong>SUBJECT LUNCHEONS</strong>&lt;br&gt;Biology: Hyatt Grand Ballroom D, Session L-52* Sponsored by Savvas Learning Company&lt;br&gt;Elementary: Hyatt Grand Ballroom ABC, Session L-51* Sponsored by Twig Education&lt;br&gt;Physics: Hyatt Grand Ballroom EFG, Session L-55* Sponsored by Vernier Software &amp; Technology</td>
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<tr>
<td>12 – 1:30 pm</td>
<td><strong>Lunch</strong>, boxed lunches available in Hyatt Main Street Gallery*</td>
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<tr>
<td>12 – 4:30 pm</td>
<td><strong>Vendors’ Exhibits</strong>: Convention Center, Empire Hall South</td>
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<td>12 – 4:30 pm</td>
<td><strong>STANYS Store</strong>: Convention Center, Empire Hall South</td>
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<tr>
<td>1:45 – 2:45 pm</td>
<td><strong>Session C</strong></td>
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<tr>
<td>1:45 – 3:30 pm</td>
<td><strong>Sun Watch</strong>: Terrace, Convention Center</td>
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<td>3 – 4 pm</td>
<td><strong>Hall of Sections</strong>: Empire Hall South, Exhibit Hall, Convention Center and <strong>Geeky T-shirt</strong> Competition</td>
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<tr>
<td>3 – 4 pm</td>
<td><strong>Pre-Service Teachers Meet &amp; Greet</strong>: Empire Hall South, Convention Center</td>
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<tr>
<td>3 – 4 pm</td>
<td><strong>Welcoming Wine and Cheese &amp; Beer and Pretzel Reception</strong>: Empire Hall South, Convention Center, Sponsored by Visit Rochester.</td>
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<tr>
<td>5 – 6 pm</td>
<td><strong>Dinner Buffet</strong>: Convention Center, Lilac Ballroom/<strong>Fellows Past Presidents Dinner</strong>: Convention Center, Riverside Court</td>
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Saturday, November 6 (cont.)

6 – 8 pm  General Meeting of the Membership, Awards and Fellows Induction Ceremony, and Keynote Speaker, Dora Kastel, New Visions for Public Schools, Lilac Ballroom, Convention Center

8 – 11 pm  Vendors’ Exhibits: Convention Center, Empire Hall South

8 – 11 pm  Casino Night and STANYS/Ward’s Science Raffle, RRCC Empire South, Sponsored by Texas Instruments

9 pm – 2 am  Cash Bar, Lobby Bar Corso at Hyatt

Sunday, November 7

7 – 10:30 am  Concession area: Coffee Cart, Convention Center, Lower Level

7 – 11 am  Conference Registration, Convention Center, Lobby

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<td>Hyatt Grand Ballroom EFG; Session D-51*</td>
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<tr>
<td>Intermediate</td>
<td>Hyatt Grand Ballroom D; Session D-52* Sponsored by Mosa Mack</td>
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7 – 9 am  Boxed Breakfast, Hyatt Main Street Gallery

8 – 9 am  Session D

9:30 – 10:30 am  Session E

10:30 – 11:30 am  Meet the STANYS Team Coffee: Convention Center, Empire Hall South

10:30 am – 3 pm  Vendors’ Exhibits, Convention Center, Empire Hall South

10:30 am – 3 pm  STANYS Store, Convention Center, Empire Hall South

10:30 am – 3 pm  Concession Area open, Convention Center, Empire Hall South

11 am – 12 pm  Session F

12 – 1:30 pm  LUNCHEONS

Sharing the Stories of Science Buffet  Hyatt Grand Ballroom D, Session L-65
Applied Science & Technology  Hyatt Ballroom EFG, Session L-61*
Special Education/ELL  Hyatt Regency A, Session L-62

12 – 1:30 pm  Lunch, boxed lunches available in Hyatt Main Street Gallery*

1:45 – 2:45 pm  Session G

1:45 – 3 pm  Sun Watch: Terrace, Convention Center

* Pre-registration required (you must pre-register on your registration form for these events). Two subject area Breakfasts and two subject area Luncheons included in your Registration Fee. If you do NOT sign up for a breakfast or a luncheon, your meal will be available as a to go meal. These meals will be picked up in the Hyatt Main Street Gallery.

** Included in your Conference Registration Fee

*** Fellows, Past Presidents and invited guests or pre-registered ($10)
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2021 - 2022

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Directors of Committee (DOC)

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November 4 – 7, 2022
The Oncenter Convention Center
Syracuse

**HOTELS:**
Marriott Syracuse  
Downtown Hotel  
Crowne Plaza Syracuse
The strength of STANYS is its members. Each Section has a number of elected and volunteer positions. If you are interested in getting involved in the professional aspects of STANYS, contact your Section contact.

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<th>COUNTIES</th>
<th>CONTACT CHAIR</th>
<th>CONTACT E-MAIL</th>
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<tr>
<td>CATSKILL-</td>
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<td>CENTRAL</td>
<td>Cayuga, Onondaga, Oswego</td>
<td>Daniel Bondgren</td>
<td><a href="mailto:Centraldirector@stanys.org">Centraldirector@stanys.org</a></td>
</tr>
<tr>
<td>CENTRAL WESTERN</td>
<td>Livingston, Monroe, Ontario,</td>
<td>Caitlin Ullock</td>
<td><a href="mailto:cullock@frontier.com">cullock@frontier.com</a></td>
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<tr>
<td></td>
<td>Seneca, Wayne, Yates</td>
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<tr>
<td>EASTERN</td>
<td>Albany, Columbia, Fulton, Greene, Hamilton,</td>
<td>Katy Perry</td>
<td><a href="mailto:Easterndirector@stanys.org">Easterndirector@stanys.org</a></td>
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<tr>
<td></td>
<td>Montgomery, Rensselaer, Saratoga, Schenectady,</td>
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<td>MOHAWK VALLEY</td>
<td>Herkimer, Madison, Oneida</td>
<td>Cinnamon Marchione</td>
<td><a href="mailto:Mohawkvalley@stanys.org">Mohawkvalley@stanys.org</a></td>
</tr>
<tr>
<td>NASSAU</td>
<td>Nassau</td>
<td>Carol-Ann Winans</td>
<td><a href="mailto:Nassaudirector@stanys.org">Nassaudirector@stanys.org</a></td>
</tr>
<tr>
<td>NEW YORK CITY</td>
<td>Kings, New York, Queens, Richmond</td>
<td>Heather Page</td>
<td><a href="mailto:NYCdirector@stanys.org">NYCdirector@stanys.org</a></td>
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<tr>
<td>NORTH CENTRAL</td>
<td>Jefferson, Lewis, St. Lawrence</td>
<td>Heather Randall-Neville</td>
<td><a href="mailto:NCdirector@stanys.org">NCdirector@stanys.org</a></td>
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<tr>
<td>NORTHEASTERN</td>
<td>Clinton, Essex, Franklin</td>
<td>Rebecca Shuman</td>
<td><a href="mailto:NEdirector@stanys.org">NEdirector@stanys.org</a></td>
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<tr>
<td>NORTHWESTERN</td>
<td>Genesee, Niagara, Orleans</td>
<td>Edie White</td>
<td><a href="mailto:NWdirector@stanys.org">NWdirector@stanys.org</a></td>
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<tr>
<td>SOUTHEASTERN</td>
<td>Dutchess, Orange, Putnam, Rockland, Ulster,</td>
<td>Ashley Green</td>
<td><a href="mailto:ashgro829@yahoo.com">ashgro829@yahoo.com</a></td>
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<td>Sullivan</td>
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<tr>
<td>SOUTHERN</td>
<td>Broome, Chemung, Cortland, Schuyler, Steuben,</td>
<td>Nancy Coddington</td>
<td><a href="mailto:ncoddington@wskg.org">ncoddington@wskg.org</a></td>
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<td>SOUTHWESTERN</td>
<td>Allegany, Cattaraugus, Chautauqua</td>
<td>Michael Jabot</td>
<td><a href="mailto:Swdirector@stanys.org">Swdirector@stanys.org</a></td>
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<td>SUFFOLK</td>
<td>Suffolk</td>
<td>Glen Cochrane</td>
<td><a href="mailto:Suffolkdirector@stanys.org">Suffolkdirector@stanys.org</a></td>
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<tr>
<td>WESTCHESTER</td>
<td>Bronx, Westchester</td>
<td>Danielle Jackson</td>
<td><a href="mailto:Chemteacher914@gmail.com">Chemteacher914@gmail.com</a></td>
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<tr>
<td>WESTERN</td>
<td>Erie, Wyoming</td>
<td>Tim Coughlin</td>
<td><a href="mailto:Westerndirector@stanys.org">Westerndirector@stanys.org</a></td>
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<td>Howard Bullock</td>
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<td>John Mack</td>
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<td>J. Richard Sentman</td>
<td>Clarence</td>
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<td>Keith Banner</td>
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<td>Donna E. DeSeyn</td>
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<td>Carol K. Lenhardt</td>
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<td>Virginia A. Curry</td>
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<td>1987</td>
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<td>Larry Josbeno</td>
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<td>Joan A. Laredo-Liddell</td>
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<td>Walter Len Sharp</td>
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<td>1992</td>
<td>Donna Brown</td>
<td>Schenectady</td>
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Using evidence to make conclusions is not just something we teach. **It's something we do.**

Nationally recognized supplemental and core science curriculum that prioritizes the direct experience.

**Full-year programs for:**
- 6-8 NGSS
- Biology
- Chemistry
- Earth Science
STANYS Award of Appreciation
Awarded to those individuals who have given outstanding service to STANYS.

Jean Ann Crespo
DOC Special Education/ELL

Vivian Pokrzyk
Conference Registration

Duane Willsey
DAL Elementary

Wanda Padula
Awards Chair

STANYS Service Award
Members who make an exceptional contribution to science

Dr. Don Haas
Paleontological Research Institution

STANYS Past President Award
Kenneth Huff
Western

Anton Banko Award for Excellence in Teaching
K-6 Science

Veronica Morabito Weeks
Bretton Woods Elementary School

Executive Committee Award
Awarded by the Executive Committee to a nonmember who has made exceptional contributions in the areas of science and science education.

Texas Instruments

Champion of Teacher Development

Karin Cyganovich
Cheektowaga Central School District

Fellows New Teacher Conference Award
Not awarded

STANYS Award of Appreciation
Awarded to those individuals who have given outstanding service to STANYS.

Lisa Brosnick
Past President

Kathaleen Burke
DOC Retirees

Fran Hess
FIC and Fellows Chairperson

Meg Helmes
DOC Sections

Michael Jabot
DOC Professional Learning

STANYS Service Award
Members who make an exceptional contribution to science

Sandra George

STANYS Past President Award
Dr. Dominick Fantacone
Southern

Anton Banko Award for Excellence in Teaching
K-6 Science

Toni Keglovitz
Chester Elementary School

Executive Committee Award
Awarded by the Executive Committee to a nonmember who has made exceptional contributions in the areas of science and science education.

Travania Clark
Hyatt

Kris Hughes
Rochester Riverside Convention Center

Champion of Teacher Development

Carol Ann Winans
Wantagh School District

Fellows New Teacher Conference Award
Michael Delmont
Frontier High School

Excellence in Teaching
INTERMEDIATE

Edward Miller
Selden Middle School

HIGH SCHOOL

Lisa Brosnick
North Collins Central School District

Dr. Sarah English
Sweet Home High School

COLLEGE

Dr. Angela Pagano
SUNY Cortland

Membership Challenge Award
GREATEST INCREASE IN TOTAL NUMBER

Western

GREATEST PERCENTAGE INCREASE IN MEMBERSHIP

Catskill-Leatherstocking

STANYS Fellow
Donna Banek

STANYS Award of Appreciation
Awarded to those individuals who have given outstanding service to STANYS.

Lisa Brosnick
Past President

Kathaleen Burke
DOC Retirees

Fran Hess
FIC and Fellows Chairperson

Meg Helmes
DOC Sections

Michael Jabot
DOC Professional Learning

STANYS Service Award
Members who make an exceptional contribution to science

Sandra George

STANYS Past President Award
Dr. Dominick Fantacone
Southern

Anton Banko Award for Excellence in Teaching
K-6 Science

Toni Keglovitz
Chester Elementary School

Executive Committee Award
Awarded by the Executive Committee to a nonmember who has made exceptional contributions in the areas of science and science education.

Travania Clark
Hyatt

Kris Hughes
Rochester Riverside Convention Center

Champion of Teacher Development

Carol Ann Winans
Wantagh School District

Fellows New Teacher Conference Award
Michael Delmont
Frontier High School

Excellence in Teaching
INTERMEDIATE

Loretto Canfield
St. Martin de Porres School

Elisabeth Haller
Johnson City Middle School

HIGH SCHOOL

Ashley Green
Ramapo High School

COLLEGE

Not awarded

Membership Challenge Award
GREATEST INCREASE IN TOTAL NUMBER

Nassau

GREATEST PERCENTAGE INCREASE IN MEMBERSHIP

Nassau

STANYS Fellow
Kathaleen Burke

Special Award of Appreciation
Serena Harrington
Hyatt Regency Rochester

Meredith Howie
Rochester Riverside Convention Center
<table>
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<th>Year</th>
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| 1999 | Arthur Lebofsky  
      Sheila Ornstein  
      Brian Vorwald |
| 2000 | George Amann  
      Mary Colvard  
      Vivian Pokrzyk |
| 2001 | S. Jane Fritz, CSJ  
      Angela Lukaszewski  
      Fred Oberst |
| 2002 | Jacqueline Garelick  
      Nancy Ridenour |
| 2003 | No award |
| 2004 | Rodney Doran  
      Robert Bush  
      Mary Colvard  
      Dolores Miller |
| 2005 | Jack Higham  
      Mary Jean Syrek  
      Patricia Sherman |
| 2006 | David Baker  
      Jackie Garelick  
      Fred Oberst  
      Jim Overhiser  
      Joan Wagner  
      Joseph Zawicki |
| 2007 | Mary Colvard  
      Lance Rudiger  
      Alan Seidman |
| 2008 | Glenn Dolphin  
      Laura Lehtonen  
      Polly Peterson |
| 2009 | Phil Childs  
      Ed McDaniels  
      Vivian Pokrzyk  
      James Overhiser  
      Charlene Rydgren |
| 2010 | Barbara Poseluzny  
      James Ripka  
      Patricia Price |
| 2011 | Arnie Serotsky  
      Susan Sharp  
      Rebecca Remis |
| 2012 | Rick Beal  
      Thomas Shiland  
      Robert Dayton |
| 2013 | Kari L. Murad, Ph.D  
      Kathy Hoppe  
      Gene Gordon  
      Michelle Hinchliffe  
      Mary Marcinkowski |
| 2014 | Steve Fielman |
| 2015 | Paul Fedoroff  
      Polly Peterson  
      Barbara Poseluzny |
| 2016 | Lisa Brosnick  
      Bruce Hall  
      Thomas P. O’Brien, Ph.D  
      Fred Pidgeon  
      William Roome  
      Arnie Serotsky  
      Joseph Stewart  
      Harvey Wiener |
| 2017 | Sonja Anderson  
      Loretto Canfield  
      Nancy Coddington  
      Robert Dayton  
      Kenneth Huff  
      Fred Pidgeon  
      Becky Remis  
      Mary Thomas |
| 2018 | Michael Hanophy  
      Fred Pidgeon  
      Larry Rand  
      Alan Seidman  
      Brian Vorwald |
| 2019 | Donna Banek  
      Matt Christiansen  
      Karin Cyganovich  
      Paula Fernoza  
      Karen Huffman |
| 2020 | Jean Ann Crespo  
      Vivian Pokrzyk  
      Duane Willsey  
      Wanda Padula |
| 2021 | Lisa Brosnick  
      Kathaleen Burke  
      Fran Hess  
      Meg Helmes  
      Michael Jabot |
1972  Donald Matties  Science Kit
1973  Joseph Viani  Ward's Scientific
1974  Bernard Sohn  Millipore Corporation
1975  Thomas Zayko  Prentice Hall
1976  Cane Wolfe  Carolina Biological
1977  Richard Schindler  Sargent Welch
1978  Ervil "Kip" Kennet  Charles Merrill
1979  Howard Kimmel  Kern Tech
1980  Bill Aldridge  National Science Teachers Association
1981  Leonard Leonetti  Silver Burdett
1982  Robert McCullough  DC Heath
1983  William Andrews  University of Toronto
1984  Donald Stone  STANYS
1985  Carl Olson  Prentice Hall
1986  Col. George Padolino  United States Military Academy
1987  Phyllis Marcusio  National Science Teachers Association
1988  William Paul  Prentice Hall/Allyn Bacon
1989  David Doyle  Silver Burdett & Ginn
1990  Harold Miller  STANYS
1991  Douglas S. Reynolds  NYS Education Department
1992  No Award Presented
1993  Ray Latour  Silver Burdett & Ginn
1994  Fallsview Hotel  Nevele Hotel
1995  Jack Higham  NYS Education Department
1996  Jack Demma  Parco Scientific Co.
1997  Judy Farrell  STANYS Clerk
1998  Robert Gibson  STANYS Parliamentarian
1999  Thomas Urbano  Capitol Press Printers
2000  William Doyle, III  Doyle and Doyle Law Firm
2001  No Award Presented
2002  Diana Harding  NYS Education Department
2003  Ira W. Geer, Jr.  American Meteorological Society
2004  Mary Virginia Orna, OSU  The College of New Rochelle
2005  Dr. John Delano  SUNY at Albany
2006  Dr. Sam Bowser  Wadsworth Center, NYS Department of Health
2007  Bill Stevens  eduware, Inc.
2008  Theodore Sawyko
2009  Dennis O'Connell  Corning Community College
2010  Anne Schiano  Curriculum, Instruction and Instructional Technology at NYS Education Department
2011  Dr. William Banko  Sponsor of Special Primary Teacher of Science Award, Special Edition Newsletter on Elementary Science and the Elementary Breakfast
2012  Ryan Marx  Hyatt Hotels
2013  Anthony Jaacks  Ann Crotty, Ed.D.  NYS Education Department
2014  Susan Braue  Pearson Educational
2015  Union Graduate School
2016  Ward's Science
2017  Visit Rochester
2018  New York State Master Teacher Program
2019  Patty Schuster  Page Designs, Inc.
2020  Texas Instruments
2021  Travania Clark  Hyatt
2021  Kris Hughes  Rochester Riverside Convention Centera
1974
Donna DeSeyn
Jack McGrath
Harold Miller
Robert Sigda
Edith Stillwaggon

1975
Joseph Palombi
James Power

1976
David Brooker
Glenn Crossway

1977
Rudolph Buettne
Virginia Curry

1978
None Awarded

1979
Robert Eustace

1980
Edwin Heiderman

1981
Harold Miller
Alice Veyvoda

1982
Leonard Lacara
John Marcisotto

1983
Joan Laredo-Liddell

1984
Larry Josbeno

1985
Harold Miller
Annette Saturnelli

1986
Joseph Elliffe
Carolyn Graham
Marie Stavrides
Donald Pearce

1987
Madeline Coutant
Margaret Gollahe
Frances Hess
Philip Johnson
Victor Schmid

1988
Rolland Gladieux
Paul Hirni
Harry Kranepool
Antonia Martin
Len Sharp
Gordon VanHooft

1989
Susan Agruso
Wilton Baty
Edith Carpenter
Joanne Gallagher
Herbert Koening
Mary Ita O'Donnell

1990
Bernard Auerbach
Corin Bauhofer
Jutta Dudley
Leona Freeman
Floyd Peck
James Zobian

1991
Karen Ertl
Charles Gardner
Uriel Goldsmith
Glenn Ungerer

1992
Mary Arnold
Josephine Bordonaro
Hugh Templeton
Donovan Yates

1993
Samuel Bloom
Ethel Gallagher
Antonia Martin
Doris Odell
Madeline Snyder
Joan Wagner

1994
Robert Love

1995
Elizabeth Lamphere
Ann Muehlen
Donald Pearce
Annette Saturnelli

1996
Joanne Corey
John Mack
Joseph Oberkriese

1997
W. John Higham
Gilbert Zinn

1998
V. Burton
Bremenstuhl
Richard Hunt
Harold Miller
James Power
Elise Russo

1999
George Cataldo
William Peruzzi
Richard Rosenman
Joseph Stewart
Gordon Voght

2000
Mary Branch
Walter Guild, Jr.
Andrew Telesca
Donna Walls

2001
H. Craig Sipe

2002
Rita Calvo
Kenneth Licata
Angela Lukaszewski

2003
John Bartsch
Robert Daley
Verne N. Rockcastle

2004
Robert Bush
Mary Colvard

2005
Scott Robinson
Bruce Tulloch

2006
Fred Oberst
Harvey Wiener

2007
Alice Vevyoda

2008
Bruce Hall
Joe Stewart
Joan Wagner

2009
Buffalo Science
Teachers' Network
Judy Farrell

2010
Vivian Pokrzyk
Mary Marcinkowski

2011
Lowell Sylvester

2012
Arnie Serotsky

2013
Michael Hanophy

2015
Alan Seidman

2016
Thomas P. O'Brien,
Ph.D.

2017
Mary Loesing

2018
Cookie Barker
Sarah Fink

2019
Fred Pidgeon
Arnie Serotsky
Bruce Tulloch

2020
Dr. Don Haas

2021
Sandra George
Inspiring Generation STEM

There’s a scienTIst in every student.

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Find resources that fit your curriculum. Build students’ ability to think critically and creatively. Give them confidence to solve problems. Start them on the path to becoming tomorrow’s innovators, inventors and explorers.

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» Professional development that enhances teaching practices, content knowledge, technology skills.
SATURDAY, NOVEMBER 6 • 6:15 – 7:15 P.M.
LILAC BALLROOM, ROCHESTER RIVERSIDE CONVENTION CENTER

Dora Kastel

Storylines for Students, Teachers and Leaders

The shift away from traditional science teaching and learning towards the New York State Science Learning Standards (NYSSLS) is both exciting and challenging. For our students, this may be the first time they get to sit in the driver’s seat for their own learning! For teachers and their supervisors, this approach isn’t how they were taught science, so they often ask, “How are we supposed to know what the storyline approach should look and feel like to our kids? How does it work?”

There is a parallel journey that educators are experiencing as we support students in figuring out why or how a phenomenon occurs. Just as instructional materials support coherent student storylines in a science classroom, coherent professional learning can support teachers in figuring out how to shift their practice towards the NYSSLS. In addition to sharing my insights about supporting the development of curricula using storylines along with enactment of those materials, I’m also excited to share strategies regarding professional learning for science teachers and leaders. These insights and strategies will support you in making sure all students have access to high quality science instruction, as we continue our transition to the NYSSLS together.

Dora Kastel supports science teaching and learning in the New Visions network and beyond through the development of standards-aligned instructional materials along with facilitation of professional learning for both teachers and leaders. She previously taught middle school science and math in East Harlem, and was a professional development provider at the American Museum of Natural History. While at the museum, Dora’s most widely-recognized projects included the Five Tools for Translating the NGSS, the NSF-funded Moving Standards into Practice (which lead to the development of the EQuIP-reviewed Disruptions in Ecosystems unit), and an NGSS video series with the Teaching Channel. She holds a B.A. in geology from the University of Pennsylvania, M.A. and Ed.M. degrees in science and math education from Teachers College, Columbia University, and is currently working on her Ph.D. in science education.

We Love Your Feedback!
Complete Your Evaluations through the App

If you have any questions during the conference, please email Jim Wanamaker at app@stanys.org
Sharing the Stories of Science

SATURDAY, NOVEMBER 6
9:30 – 10:30 A.M.
SESSION A-19

Dr. Vasiliii Petrenko
University of Rochester

Methane Time Bombs, Leaky Pipelines and Scientists Doing Their Best to Stay Warm

Methane is a powerful greenhouse gas that is second only to carbon dioxide in terms of its importance in driving human-induced warming of the planet. Methane’s lifetime in the atmosphere is much shorter than that of CO₂, making it a prime target for near-term climate action. In this talk, I will provide an overview of what we know about the interaction of atmospheric methane with climate. I will also discuss what studies of ancient air from ice cores have taught us about the natural methane cycle, our contribution to methane that is found in the atmosphere today, and likely future scenarios. Finally, I will provide an introduction to polar ice cores, including the process of drilling ice cores and what they can teach us about Earth’s climate.

Vasiliii Petrenko (Vas) is an Associate Professor in the Department of Earth and Environmental sciences at the University of Rochester, and a former science teacher. His research interests are in the areas of past, present and future climate and chemistry of the atmosphere. Vas’ research group uses measurements of both modern and ancient air (from ice cores) to understand the interactions between climate and chemistry both in the natural preindustrial atmosphere and in today’s conditions. He and his research group travel regularly to Antarctica and Greenland to drill cores for their studies.

SATURDAY, NOVEMBER 6
1:45 – 2:45 P.M.
SESSION C-19

Dr. Vera Gorbunova
University of Rochester

Mechanisms of Longevity: Lessons from Long-lived Mammals

Vera Gorbunova is an endowed Professor of Biology and Medicine at the University of Rochester and a co-director of the Rochester Aging Research Center. Her research is focused on understanding the mechanisms of longevity and genome stability and on the studies of exceptionally long-lived mammals.

Dr. Gorbunova earned her B.Sc. degrees at Saint Petersburg State University, Russia and her Ph.D. at the Weizmann Institute of Science, Israel. Dr. Gorbunova pioneered comparative biology approach to study aging. She investigates the longest-lived mammalian species such as the naked mole rats, the blind mole rat and the bowhead whale. Dr. Gorbunova also studies the role of Sirtuin 6 protein in longevity. Recently she demonstrated that LINE1 elements trigger innate immune response that drives age-related sterile inflammation.

She has more than 100 publications including publications in high profile journals such as Nature, Science and Cell. Her work received awards from the Ellison Medical Foundation, the Glenn Foundation, American Federation for Aging Research, and from the National Institutes of Health. Her work was awarded the Cozzarelli Prize from PNAS, prize for research on aging from ADPS/Allianz, France, Prince Hitachi Prize in Comparative Oncology, Japan, and Davey prize from Wilmot Cancer Center.
On February 18, 2021, the Perseverance rover successfully landed on the surface of Mars. After a short pause to check on its equipment, the rover -- and its helicopter -- have been crisscrossing the floor of the Jezero Crater, analyzing the atmosphere, surface, and even sub-surface properties of the Red Planet. What has it discovered during the first six months of its mission? In my talk, I’ll try not only to provide an overview of the results so far, but also do my best to explain how scientists use Perseverance’s seven main instruments to investigate the mysteries of Mars.

Michael Richmond grew up in Massachusetts, spending his teenage years attending and then working at the South Shore Natural Science Center. He majored in Astrophysical Sciences at Princeton University, then moved across the country to do his graduate work at the UC Berkeley. After six wonderful years using telescopes in the Bay Area, he moved back to Princeton to work as a post-doc on the Sloan Digital Sky Survey (SDSS). Just as the project was about to start collecting data, he left to join the Physics Department at RIT, where he works now.

Among the many groups participating in the SDSS were astronomers from the University of Tokyo. Michael has continued to do research with them, visiting Japan many times, spending one memorable summer at the Kiso Observatory, and even teaching classes at University of Tokyo and the National Astronomical Observatory of Japan. His Japanese is only so-so, but he enjoys many facets of Japanese culture, and has been the faculty advisor for Rochester Institute of Technology RIT’s Anime Club for over a decade.

Michael uses the small telescopes at RIT’s observatory to measure the behavior of binary stars, especially those in which a white dwarf grabs material from its stellar companion. Since the weather is Rochester is not the best, he occasionally travels to the Kitt Peak National Observatory to take advantage of their clear and dark skies.
NEW VISIONS
Using Student Centered Phenomena-Driven Storylines to Support the Shift to NYSSLS

NOVEMBER 5, 2021 | 8:30 AM – 3:30 PM

NEW VISIONS PL INSTITUTE - Full Day (breakfast and lunch included)

Join the New Visions science team for a one-day professional learning institute to learn about our phenomena-driven instructional materials for High School Biology and Earth & Space Science. Take a deep dive into these student-centered resources designed to meet the three-dimensional learning goals of the NYSSLS by engaging with us in immersive experiences from our curriculum, including group learning routines to support equitable sense-making.

NGSS AND NYSSLS

“New Visions for Public Schools has designed and curated instructional materials that make up full-course curricula for Living Environment and Earth Science. ... Our curriculum work started in 2012 as an effort to ensure teachers have access to high-quality, curated materials. We now do much more, ensuring coherence in our materials, and usefulness across a range of settings.

With the adoption of new science learning standards in New York State — the New York State Science Learning Standards (NYSSLS), an adaptation of NGSS — we are re-designing much of our curricular offerings. We have a cadre of teachers, teacher leaders, and school supervisors who have been collaborating with us for the past 2 years to figure out the pace and focus of this re-design process.”

ABOUT NEW VISIONS

For more than 30 years, New Visions has been at the heart of groundbreaking, real improvement in New York City public schools. We have opened more than 130 new schools, launched a nationally-recognized teacher residency program, and developed student planning tools and high school curriculum in use across New York city. Our impact shows in improving outcomes for students: the high school graduation rate, less than 50 percent citywide when we were founded, now exceeds 85 percent in our partner networks. Today, we support more than 1050 schools serving 600,000 students, helping them tackle their toughest challenges and realizing a shared vision of a high-quality public education for all New Yorkers.
Donna Banek
STANYS FELLOW 2020

Donna Banek, of the Nassau Section of STANYS, demonstrates unending dedication to supporting science education and science teachers with her welcoming attitude, supportive ideas, and eternal advocacy. Over her 34 years as an active member, Donna has served at the STANYS state level as the Association Secretary from 2013-2019 and the Conference Secretary from 2013 to present. In the Nassau Section, Donna’s roles include: Informal Education Representative and Program Chair, Section Director, Board of Directors and Intermediate Level Subject Area Representative.

Her experiences as a longtime Malverne Union Free School District General Science teacher, Saturday Academy Lead Teacher, Science and Health Coordinator, and Malverne Teachers Center Co-Director, Molloy College Graduate Education Faculty, Adelphi University School of Education Part-Time Faculty, Science Tutor, Nassau County Board of Cooperative Educational Services Curriculum Consultant, Bethpage Union Free School District Technology and Curriculum Consultant, Ithaca College National Science Foundation Teacher Leader, and presenter of innumerable workshops and institutes, helped Donna spread a love and passion for science and education.

Officially nominated by Steve Fielman, 2013 STANYS Fellow, Michael Comet, STANYS North Central Section Director and Biology SAR, and Katy Perry, STANYS Eastern Section and Elementary SAR, Donna’s Fellows recommendation spurred letters of support from science teachers across the state. STANYS Nassau Section Director, Carol-Ann Winans wrote, “Donna is known for her warm hugs, large smile, welcoming humor, and love of science. But the secret is, Donna is behind the scenes of everything, and everything she does is to inspire a love of learning in all students in New York State.” Donna’s personal attention has built bridges connecting science teachers across the state.

Donna has been honored throughout her career. In 2012, she was awarded the STANYS Excellence in Teaching Intermediate Level Teacher Award and the Molloy College Alumni Service Award. In 2011, she earned the Nassau Section Service Award. Her additional awards include: the Malverne Union Free School District Outstanding Staff Member. She was a SCOPE All Star Teacher and Adelphi University Distinguished Alumnus. Donna was Lynbrook B.P.O. Elks’ Teacher of the Year and at the same event, received awards from the Town of Hempstead, Nassau County Legislature, NYS Assembly’s for Excellence in Teaching. Donna earned the NYS Challenger Fellowship Award in 1991 and 1990. She has also been featured in the news and several publications.

One of the highlights of her career took place on a trip out West on a paleontological dig where she found a disarticulated Triceratops. Teaching Intermediate School was her passion. In retirement, she continues to teach Ukrainian children English through science. Her greatest wish is to continue to present opportunities, support and encouragement to the STANYS membership and educators throughout New York State.
My parents always taught me that the greatest support you can give someone else is by simply showing up for them. There is no gift more precious in our lives than our time. Being present for someone else requires you to give of your time. I can find no greater example of this selfless gift of time to science education than in Kathaleen Burke.

Kathaleen Burke has officially been a teacher since 1966. Like many, she didn’t set out initially to become a teacher. She developed a love for the craft by chance. Kathy said, “Looking back, my teaching began when I was a student in Syracuse Graduate School of Bacteriology and had a graduate assistantship that required me to teach Biology 101. Turns out, I liked teaching better.” Having taught a long and distinguished career in the Buffalo Public School System, she was recognized by both students and colleagues as an exemplary teacher in her field.

Michelle Kavanaugh, Ed.D. said “I proudly attest that I have known Kathaleen since 1966 when she was a new Science Teacher in Buffalo, New York and I was her 7th and 8th grade student. We reunited as colleagues 48 years later when I founded a nonprofit, WNY STEM Hub. Since that reunion, we worked together on various Science and STEM initiatives. She was, without a doubt, the most innovative and student-centered teacher I had known in my young life and a reason I pursued my career path in speech pathology and educational leadership.”

BPS Assistant Superintendent of Curriculum, Assessment, and Instruction Kelly Baudo Ph.D., recalling that she first met Kathy when she was student teaching under her tutelage, said “When I truly think of Kathy, I understand why I have a love and passion for Science. Why I was successful as a teacher and leader in science, why I belong to so many Science Professional Organizations, it is because of Kathy.”

Lieutenant Frank J. Centinello III, Ph.D., looking fondly back on his 8th grade science teacher remarked, “I owe the successes I have enjoyed in my life to many factors, but I can say that learning science from Kathy Burke enabled me to see them through. My time with Kathy taught me that experiments do not always go as planned, and that science is as much about resilience as it is about discovery.”

Kathy was a coach for students who wanted to enter the Science Congress/WNY Science/Technology Fair for over 40 years, beginning in 1966 to 1997, and then, in retirement for students in the Boys and Girls Clubs in 2016. She had a Science Olympiad Team for the Science Magnet School from 1985-1998, and wrote the supplementary curriculum for the Zoology course at the Zoo for the Science Magnet from 1981-1999. The course changed every year based on animals in the collection and student interests, and would garner recognition in 1987. She was the BPS Teacher of the Year in 1985-86, and being so highly regarded by her district, she was then nominated for NYS Teacher of Year and a nominee for Teacher in Space that year.

She was also the recipient of the SUNYAB Dean’s Service to Education Award in 1988, Outstanding Educator Award from the American Optical Society (1987), and the Calspan Distinguished Science Teacher Award (1985). Kathy is most proud, though, of the awards that she won for programs developed at the Buffalo Zoo Magnet School that directly impacted the classroom. These include The NSTA National Exemplar NSTA-CS-NSA Search for Excellence Program (1983), the Presidential Secondary School Recognition Award (1984), and the United States Department of Education Excellence Award (1987).
Kathaleen Burke continued

While most teachers approach the end of their careers as a chance to step away from the classroom, Kathy launched it as an opportunity to teach teachers. Thinking back on retiring from the classroom, Kathy said, “I...had plenty of time to devote to BPS Intermediate Level teachers as the District Coordinator for the TLQP Buffalo Science Teachers Network. I was also able, once again, to serve as a judge in the WNY Science and Technology Fair as a STANYS representative because I was no longer coaching my own students. I also judged Exploravision and Hub Space-flight entries.” Kathy worked as a field test teacher and consultant from 1990 to 2013, researching and developing curriculum for SEPUP at the Lawrence Hall of Science. Presently, she continues working in professional development for Lab-aids, where the focus is on classroom management and curriculum implementation.

In the Western Section, she served as Middle Level SAR from 1981-1989. During that time, she served on the NYS Middle School Advisory Committee from 1984 to 1992, and served as STANYS representative when the NYS Systemic Initiative Project began in 1992. In 1995, Kathy worked on the Development and Implementation Committee for NYS Intermediate Level Science Test, Part D. She worked as a team in development with past STANYS Fellows like Dr. Rod Doran and Ted Anderson, field testing and rubric design for all tasks. She recalls, “We were especially proud of our work because the test was the only state level hands-on, inquiry-based performance test in the nation.”

In 2008, the Western Section honored her with our Service Award to the Section. Kathy was serving as the Retiree SAR at that time which she began in 2000 and continued until 2014. Most recently, she served two terms as DAL of Retirees and saw the transition of that position to DOC. Kathy Burke has been an active member of STANYS for over 40 years, and has presented each year at the annual conference for over 30 years.

In STANYS, we understand that moving forward with fidelity requires us to look back at how we have arrived at our moment in time. We consider our evolution and look for models along the way, so we have trust in the future. There is no greater model to follow than the career of Kathaleen Burke, which on behalf of the Western Section, I ask you to join us in celebrating, as she becomes a Fellow of STANYS.
1950  *Clifford Bosworth
       *Irving Buckminster
       *Morton Collister
       *Madeline Coutant
       *Edna Craig
       *George W. Fowler
       *Margaret A. Gollaher
       *Philip C. Johnson
       *Oscar Kenyon
       *Victor Schmidt

1951  *Donald M. Kumro
       *Franklin Mathewson
       *Carleton A. Moose
       *Graydon Monroe

1952  *Rolland Gladieux
       *Richard H. Lape
       *Emma L. Rood

1953  *Nelson Beeler
       Paul Hirni
       *Benjamin H. Stach
       *William B. Sanford

1954  *Edit M. Carpenter
       *Clarence B. Evaul
       *Theodore L. Shull

1955  *Wilton E. Baty
       *Raymond T. Byrne
       *Joseph Dudleston
       *Graydon Monroe

1956  *Bernard Auerback
       *Floyd Peck
       *Mary Warren
       *James Zobia

1957  *Daniel Corr
       *Charlotte Jones
       *Marion Russell

1958  *Donald Bartholomew
       *Charles Gardner
       *Agnes Holdahl
       *Clifford Lloyd
       Glenn Ungerer

1959  *Mary C. Arnold
       Josephine Bordonaro

1960  *Elmer Finch

1961  *Donald B. Stone
       *Donovan R. Yates
       *Hugh Templeton
       *George S. Curtice
       *Alfred J. Naish

1962  Ethel Dodge Gallagher

1963  *Madeline Snyder
       *Samuel Bloom
       *Agnes Klock

1964  *Esther Tomlinson
       *Doris O’Dell

1965  Robert L. Love

1966  *Elizabeth Lamphere
       Gilbert Hoffman
       Howard McCabe
       *Theodore Piddock
       William Rit

1967  Ann Muehleck
       *Frank Robinson
       *Ralph Sonen
       *Dorothy Young
       *Salvatore Cimilucca

1968  *Everett M. Ferris
       *John H. Mack
       *Joseph Oberkriesser

1969  *Donna DeSeyn
       *Joseph Palombi
       * patents Zinn

1970  V. Burton Bremenstuhl
       Richard Hunt
       Harold D. Miller
       *James Power

1971  *Lawrence E. Bach
       *Raymond O. Bante
       *George Cataldo
       *Emett L. Smedbert
       *Richard L. Rosenman
       Gordon F. Voght
       *Ellsworth M. Willett

1972  *Mary F. Branch
       *Walter E. Guild, Jr.

1973  *William E. Baty
       Marion McIntosh
       *J. Richard Sentman
       *Alice R. Squires

1974  Howard E. Bullock
       *Berner E. Clarke
       *Ruth H. Hanett
       Marlene Williams

1975  *Bette Anne Fraim
       *Bernard McFadden
       Joseph Maurer
       Edith M. Stillwagon

1976  Carol Lenhardt
       *Konrad W. Meier
       *Dr. Robert B. Sigda

1977  Mary C. Archer
       Joseph L. Fisher
       Edwin R. O’Reilly

1978  *Louis Bancheri
       Henry Leids

1979  *David G. Brooker
       *Keith W. Calkins
       *Glenn Crossway
       Herbert G. Koenig

1980  Robert H. Eustace
       *Leonard Lacara
       Joseph W. Queior
       Margaret Wilson

1981  – None awarded

1982  *Mary Kathryn Balmer
       *Keith Banner
       Arnold Danky

1983  Virginia Curry
       John Marchisotto
       Donald Pearce
       *Eldred L. Ross

1984  Marion E. Banner
       *Rodney L. Doran
       Ray M. Snider
       Alice Lorraine Veyvoda

1985  *Harry Kranevold
       Linda Nero Shartz

1986  *Lawrence Josbeno
       *Eldred L. Ross

1987  – None awarded

1988  Joseph A. Cozzarin
       John Marchisotto
       Donald Pearce
       *Eldred L. Ross

1989  *Mary Power

1990  *Joanne Corey
       *Annette Saturnelli

1991  *Katharine Bauers-Toy
       Edwin Paul Heideman

1992  Leona Freeman
       Urie J. Goldsmith
       Frances Scelsi Hess
       Brian Vorwald

1993  Stephen Gero
       Elizabeth Behm Grant

1994  Jeanette Butler Miller
       Laurence Josbeno

1995  Sr. Jane Fritz, CSJ
       *Charles Vedder

1996  *Jane E. Cappiello
       Angela Lukaszewski
       Antonia Martin
       Walter L. Sharp
       *George H. Stevens
       Joan Wagner

1997  Mary Page Colvard
       June Dawson
       Jean Delfiner
       Mary Marcinkowski

1998  Bruce P. Hall
       Kenneth P. Licata
       Sr. Mary Ita O’Donnell

1999  – None awarded

2000  Karen Ertl
       *Andrew Telesca, Jr.
       Harvey Wiener

2001  Dolores Anne Miller

2002  Vivian Pokrzyk
       Laurence Rand
       *Marilyn Held Reiner

2003  James Overhiser
       *David Perino
       Virginia Perino
       Nancy Ridenour

2004  Philip Childs
       John Johnston
       Alan Seidman
       Lowell Sylwester

2005  Michael Hanophy

2006  David Baker
       Robert Bond
       *Robert Bush
       Jacqueline Garelick
       Polly Peterson
       Irving Soden

2007  Fred Oberst

2008  Sheila Ornstein
Fellows Award Criteria

The Fellows Award is STANYS’s highest and most prestigious honor. Our organization inaugurated the Fellows Award Program in 1949 to honor teachers who have served with distinction as science educators in New York State. Fellows are chosen on the basis of their effective teaching and active participation in professional scientific organizations and their noteworthy leadership and scholarly endeavors in science education.

To be evaluated, nominees for the STANYS Fellows Award must be current members of STANYS, have ten years of continuous membership (this must be verified in writing by the STANYS Clerk) and have the required materials submitted on the nominee’s behalf. Each of the categories below is used to rate nominees and the first four categories are weighted more than the others. Service only at the section level, even if outstanding, cannot be substituted for a lack of service at the state level.

The EVALUATION CRITERIA

The candidate has met the following criteria:
1. Performed meritorious service above and beyond the duties of holding office for the State Association.
2. Performed meritorious service above and beyond the duties of holding office for the STANYS Section.
3. Exhibited sustained interest in STANYS as evidenced by active membership and participation over a long period of time.
4. Recognized as an outstanding classroom teacher and leader of science students.
5. Contributed to science education locally, statewide and/or nationally.
6. Interested other teachers in belonging to and working for STANYS.
7. Received awards and recognition from STANYS and STANYS Sections.
8. Participated in other scientific or science education organizations.
9. Received awards and recognition from other organizations reflecting honor to STANYS.
10. Experienced in various kinds of scientific work, advanced education or research.

Candidates are evaluated by the seven members of the Fellows Committee using the criteria listed above. Scores from all seven members are recorded and submitted to the Fellows Committee Chairperson. Candidates must receive a minimum of eighty percent of the maximum score from five of the seven members of the committee to be recommended to the Board of Directors at the Spring Board of Directors meeting. The STANYS Board of Directors then votes to approve the nominees that have been recommended by the Fellows Committee.

Application materials and information is available on our website: stanys.org. Click on the menu item: “About” and the “STANYS Fellows” from right hand menu. Each STANYS section is encouraged to nominate members who qualify for this award. All application materials must be received by January 15, 2020.

Contact the STANYS Fellows Chairperson by email at fellowschair@stanys.org by January 1st to determine mailing address for application.
5th Annual STANYS Section T-shirt War

Does your section have a unique Section T-shirt? Does your Section want to be known as the “most spirited” Section? If so, have your Section members wear their T-shirts to the Annual Meeting of the Membership on Saturday at 5:00 p.m. in the RRCC Lilac Ballroom. Judges will award prizes in the following categories: the Section with the most T-shirts in attendance at the General Meeting and the section with the most innovative Section T-shirts. In order for your section to be eligible to win these bragging rights, participants must be wearing their Section T-shirts during the General Meeting.

5th Annual STANYS Geeky T-Shirt Contest

Get your “geek” on at the Wine & Cheese/Beer & Pretzels Reception on Saturday at 3:00 p.m. in the Exhibit Hall. Wear your favorite geeky science T-shirt to be eligible for the contest. Our judges will be wandering through the crowd, looking for your clever creations. Prizes will be awarded in the following categories:

- **Geekiest/Most Unusual T-shirt** (possibly on obscure topics that only a scientist or science teacher would understand),
- **Funnest T-shirt** which made the judges laugh the most,
- **Corniest T-shirt** which made the judges groan the most (including punny shirts)
- **Best Science Accessory** includes hats, capes, jewelry etc.

Each winner will get a small prize, a certificate and most importantly, bragging rights for 2021. Please be advised that obscene or offensive T-shirts will not be considered in the contest.
Sharing the Stories of Science

Hall of Sections
Saturday 3:00 – 4:00 p.m.
Exhibit Hall in the Convention Center
Come and visit your Section, friends, and colleagues from the across of the state.
You can receive your Section sticker and participate in the friendly Section Spirit T-shirt competition.

Door Prize Drawings
The Ward's Science giveaway is Saturday during Casino Night. You will need to deposit your ticket from registration in the barrel and be present to be eligible for the drawings. We would like to thank the vendors, exhibitors, and sections for their generous contributions to the raffle and the always generous Ward’s salespersons.

Vendors & Exhibits
Be sure to visit the Exhibit Hall in the Riverside Convention Center Empire Hall South, where you will find more than 30 booths tended by representatives from over 25 companies. In addition, there is the STANYS Store as well as the NSTA booth. Under one roof, you’ll have the opportunity to view the latest in textbooks, audiovisual equipment, software, scientific equipment, microscopes, and science classroom materials. Representatives from environmental groups and centers, and scientific societies will also be present. Exhibits open Saturday and the doors open noon – 4:30 p.m. AND from 8:00 – 10:30 p.m., and Sunday from 11:00 a.m. – 3:00 p.m.

Visit the vendors on Saturday afternoon and collect some Casino $$$. 

Sun Watch
What’s happening on the Sun? Peer through a solar observing telescope to find out! A member of the Astronomy Section of the Rochester Academy will help you observe and answer questions on Saturday and Sunday from 1:45 p.m. – 3:30 p.m. on the terrace overlooking the Genesee River, Rochester Convention Center. Weather permitting.

STANYS Store
Visit the STANYS Store in the Exhibit Hall in the Riverside Convention Center, booths 78-80, on Saturday from noon to 4:30 p.m. and 8 p.m. to 11 p.m. and Sunday from 11:00 a.m. to 3:00 p.m. 50% sale on numerous items featuring the embroidered STANYS logo such as fleeces, golf polos, and denim shirts, as well as our STANYS cap. Back by popular demand, a fine selection of science themed jewelry will be available — shop early for these gems!!

Proceeds from the sale of items in the STANYS Store will benefit the STANYS Foundation. The Foundation Award is a competitive award which provides funds to PreK-16 classroom teachers for science enrichment opportunities within and beyond the classroom. Applications are available on our website: stanys.org/STANYSFoundationAward

STANYS STORE ACCEPTS CASH, DEBIT & CREDIT CARDS
We wish to express our appreciation to these companies for their sponsorships, Conference gifts, and for their continuing support of STANYS.

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The STANYS 2021 Conference APP will allow attendees to have instant access to workshop descriptions and events happening every day.

Simply go to [guidebook.com/g/stanys2021/](http://guidebook.com/g/stanys2021/) to download the APP to your device. After the download, you will be able to customize your own schedule, view the vendors in the Exhibit Hall, and keep in touch with other conference attendees.

**Evaluations will be done through the app. We love your feedback!**

If you have any questions during the conference, please email Jim Wanamaker at [app@stanys.org](mailto:app@stanys.org)

We Love Your Feedback!

**Do Your Evaluations through the App**

Please follow the directions once you access the APP to submit your workshop surveys and other conference-related evaluations.

If you have any questions during the conference, please email Jim Wanamaker at [app@stanys.org](mailto:app@stanys.org)
Exploring Drumlins at Chimney Bluffs State Park

You must be pre-registered for the trip.

TRIP COORDINATOR: Jutta Siefert Dudley, Ph.D.; geoscience educator, STANYS Conference Committee.

This field excursion takes us to a unique, exposed section of drumlins along the shore of Lake Ontario, east of Sodus Bay. We will visit Chimney Bluffs State Park which encompasses a small section of the enormous drumlin field north of the Finger Lakes region of NYS. Thousands of years of wave action and mass wasting is creating an ever-changing landscape of cliffs with spires.

The eroding drumlins offer a unique opportunity to examine their composition and contemplate their formation. We’ll observe mass wasting features, seasonal beach terraces, amazing erratics of all rock types and sizes, and glacial lake varves.

Please be prepared for inclement weather and wear sturdy shoes. We will be walking on a pebble beach. You may wish to bring a camera, binoculars, and a notebook.

In November there is no parking fee in this state park. We will spend most of our time along the beach and will access it from a parking lot at the eastern side of the park. At the western parking lot, there are picnic tables, so we may stop there first to eat lunch.

TRANSPORTATION: Carpool (approx. 60 minutes)

DEPARTURE: 11:00 a.m. Check in with the trip leader in the lobby of the Hyatt Hotel by 10:30 a.m. If driving to Chimney Bluffs from another location, please inform the trip coordinator.

RETURN: Depart the site around 3:00 p.m.

CONTACT: On November 4 and on trip day, contact Jutta Siefert Dudley at 585-967-6479 (cell)
Science Trivia Night and Buffet

You must be pre-registered for this event.

Wear Your Thinking Cap! Teams and individuals will compete for the crowning of a Science Trivia Champion. Prizes will be awarded for the team or individual winner.

Dress for the event: your most trivial outfit...

CASINO NIGHT

You will receive casino money in your registration packet. You can get additional $$ by visiting the exhibitors and then gamble the evening away.

Our always entertaining raffle will also be happening at the same time. Place your ticket in the bin for a chance of raffle baskets from our sections, our exhibitors, and our friends from WARD’S Scientific.

Rochester Academy of Science – Mineral Section

Visit their tables in the Exhibit Hall to say Hi! and purchase rocks and minerals.
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<td>23</td>
<td>21 Buena Vista Rd., Fairfield, CT 06825</td>
<td>202-253-7610</td>
<td>Lissa Johnson</td>
<td><a href="mailto:lissa@mosamack.com">lissa@mosamack.com</a></td>
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<td>mosamack.com</td>
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<tr>
<td>National Science Teachers</td>
<td>8</td>
<td>1840 Wilson Blvd., Arlington, VA 22201</td>
<td>800-722-6782</td>
<td>Lisa Lowenberg</td>
<td><a href="mailto:llowenberg@chittenangoschools.org">llowenberg@chittenangoschools.org</a></td>
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<tr>
<td>Association (NSTA)</td>
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<tr>
<td>New York Earth Science</td>
<td>7</td>
<td>1179 Glen Rd., Shrub Oak, NY 10588</td>
<td>914-413-3742</td>
<td>Renee Aubry</td>
<td><a href="mailto:raubry@otunet.com">raubry@otunet.com</a></td>
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<tr>
<td>Teachers Association</td>
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<tr>
<td>New York Odyssey of the Mind</td>
<td>2</td>
<td>18 Grand Erie Way, Fairport, NY 14450</td>
<td>914-374-7191</td>
<td>Lynn Lucas</td>
<td><a href="mailto:llucas@nysoma.org">llucas@nysoma.org</a></td>
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<td>Paleontological Research</td>
<td>14</td>
<td>1259 Trumansburg Rd., Ithaca, NY 14850</td>
<td>607-273-6623</td>
<td>Don Haas</td>
<td><a href="mailto:dad55@cornell.edu">dad55@cornell.edu</a></td>
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<tr>
<td>Institution</td>
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<td>Priweb.org</td>
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<tr>
<td>Rochester Institute of Technology</td>
<td>22</td>
<td>85 Lomb Memorial Dr., Rochester, NY 14623</td>
<td>585-475-6832</td>
<td>Alla Bailey</td>
<td><a href="mailto:avbsch@rit.edu">avbsch@rit.edu</a></td>
</tr>
<tr>
<td>Rochester Museum &amp; Science</td>
<td>28</td>
<td>657 East Ave., Rochester, NY 14607</td>
<td>585-271-4320</td>
<td>Eron Damercy</td>
<td><a href="mailto:edamercy@rmsc.org">edamercy@rmsc.org</a></td>
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<tr>
<td>Center</td>
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<tr>
<td>Savvas Learning Company</td>
<td>3, 4, 5</td>
<td>15 E. Midland Ave., Paramus, NJ 07652</td>
<td>201-232-7268</td>
<td>Joanne Toscano</td>
<td><a href="mailto:joanne.toscano@savvas.com">joanne.toscano@savvas.com</a></td>
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<td>savvas.com</td>
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</tbody>
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School Specialty FOSS .............. 13
80 Northwest Blvd., Nashua, NH 03063
585-354-6888
Jake Kane
jacob.kane@schoolspecialty.com
schoolspecialty.com

Science With Steele ............... 29
418 Merry Rd, Seek-No-Further Farm
Amsterdam, NY 12010
518-944-0254
George Steele
schoolyardnaturalist@gmail.com
georgesteene.webs.com

Scilebrity Clothing LLC ............ 27
70 Comsewogue Road Unit 12
East Setauket, NY 11733
516-580-1714
Thomas Cadolino
sales@scilebrityclothing.com
ScilebrityClothing.com

STANYS Store .................. 31, 32, 33
8377 Evelyn Dr., Eden, NY 14057
716-949-0417
Lisa Brosnick
stanysstore@stanys.org
stanys.org

STANYS Conference Exhibit Office ... 1
8 Chapin Place, Halesite, NY 11743
631-432-6428
Angela Lukaszewski
angluke@aol.com
stanys.org

STEMscopes ....................... 35
5177 Richmond Ave, Suite 800
Houston, TX 77056
713-446-8449
Bobby Barron
bbarron@acceleratelearning.com
stemscopes.com

Terra Science and Education Inc ..... 21
835 W. Genesee St., Syracuse, NY 13204
315-422-2902
Ryan Smith
rsmith@terraed.org
terraed.org

Texas Instruments .............. 18, 19
13532 N. Central Expressway MS 3818
Dallas, TX 75243
800-842-2737
Mr. Dana Morse
dmorser@ti.com
education.ti.com

Topical Review Book Company ...... 17
PO Box 328, Onsted, MI 49265
800-847-0854
Keith Williams
sales@topicalrbc.com
Topicalrbc.com

United Publishing Co. Inc ........... 24
40 Bailey St., Coxsackie, NY 12051
518-438-1600
Michael LaChapelle
sales@upcopublishing.com
upcopublishing.com

Visit Syracuse ..................... 34
109 S. Warren St., Suite 10
Syracuse, NY 13202
315-247-9942
Erica Richardson
erichardson@visitsyracuse.com
visitsyracuse.com

W. W. Norton & Company ........... 20
500 Fifth Ave., New York, NY 10110
212-354-5500
Gabriel Matesanz
gmatesanz@wwnorton.com
wwnorton.com/high-school

Ward’s Science .................... 30
5100 West Henrietta Rd.
West Henrietta, NY 14586
800-962-2660
Chris Davison
chris.davison@vwr.com
wardsci.com

WorldStrides ...................... 10
218 W. Water St, Suite 400
Charlottesville, VA 22902
617-210-6180
Sabrina Enriquez
senriquez@worldstrides.org
worldstrides.com
Visit Us in the Riverside Convention Center Exhibit Hall
Booths 31-32-33

PANDEMIC SPECIAL

Clothing items including polos, denim shirts and t-shirts featuring the STANYS logo are 50% OFF.

We also have baseball & football jerseys with the STANYS logo proudly displayed!

Everyone loves our SCIENCE SOX! Come early for best selection.

Plus, keep your beverage of choice cold with our CAN KOOZIES.

Browse our ever expanding selection of science-themed jewelry!

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Saturday, Nov. 6
12:00 – 4:30 P.M.
8:00 – 11:00 P.M.

Sunday, Nov. 7
10:30 A.M. - 3:00 P.M.

Proceeds from the sale of items in the STANYS Store will benefit the STANYS Foundation.
The Foundation Award is a competitive award which provides funds to PreK-16 classroom teachers for science enrichment opportunities within and beyond the classroom. Applications are available on our website: stanys.org/STANYSFoundationAward
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National Science Teachers Association has national and regional conferences. Join fellow STANYS members and science educators from around the United States and the world at the conventions. STANYS and NSTA have partnered for a reduced membership rate the first year. Visit nsta.org for more information.

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National Harbor, MD ................. November 11 – 13, 2021
Los Angeles, CA ...................... December 9 – 11, 2021

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Olympiads
• International Genius Olympiad (Environmental focus)
• Regional Science Fairs

Endowments
• College Readiness Scholarship
• College achievement Scholarship
• Capacity Building Grants

Accreditation (ACASU)
• International Schools and Universities

Research
• Bahamas Marine Research
• International Research Collaborations
• International Journal of High School Research (IJHSR)

Programs
• Terra Educational Data (TED) Solutions software products
• MakerHall
• Environmental Challenge
• Grant Writing Assistance
• CTLE Professional Development
• STEM Scholars for Classrooms
• Summer STEM Programs
• College Cultural Trips

Dr. Eric Pyle, NSTA President 2021-2022 and professor in the Department of Geology & Environmental Science, James Madison University, will be at the Conference.
You can meet him at the First Time and Earth Science Breakfasts on Saturday as well as Sunday at the Meet the STANYS Team coffee and Sharing the Stories of Science Buffet Luncheon.

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**STANYS 126th Annual Conference**

**Certificate of Attendance and Contact Hours**

November 5 – November 6, 2021
Rochester, NY

Conference Attendee: __________________________________________________________

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<tr>
<th>Sessions</th>
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<tr>
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<tr>
<td>DAL Breakfast/Lunch</td>
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<td>Title(s) ___________________________________________</td>
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Total Contact Hours = __________

*Workshops and speakers = 1 contact hour / DAL Breakfast or Lunch = 1.5 contact hours

The signature of the STANYS President / Conference Chair verifies that these are accurate contact hours for this conference.

______________________________  ________________________________
Shelly Hinchliffe              Alan Seidman
STANYS President               STANYS Conference Chair
Rochester Riverside Convention Center

- CONCESSION ITEMS -

COFFEE CART

Coffee Large (16 oz.) ................... $3.20
Small (12 oz.) ........................ $3.00
Hot Tea .................................... $2.75
Bottled Water ............................ $2.50

Juice ........................................ $3.25
Whole Fruit ............................... $1.50
Muffin ...................................... $2.50
Granola Bar ............................... $1.25

LUNCH CONCESSION

Coffee Large (16 oz.) ................... $3.20
Small (12 oz.) ........................ $3.00
Hot Tea .................................... $2.75
Bottled Water ............................ $2.50
Juice ........................................ $3.25
Canned Soda ............................. $2.50
Deli Sandwich Boxed .................. $10.75
Ham or Turkey or Tuna with house made
barbecue potato chips, pickle, and
condiments

Caesar Salad ............................ $7.00
Chicken Caesar salad .................. $12.00
Candy Bar ................................. $2.25
Potato Chips/Doritos .................... $2.00
Granolas bars ............................ $1.25
Riverside Chocolate Chip Cookies .... $1.25

HOURS

SATURDAY

Lower Lobby
(Riverside Court)
Coffee Cart
7am – Noon

Exhibit Hall
11:30am – 3pm

SUNDAY

Lower Lobby
(Riverside Court)
Coffee Cart
7am – 10:30am

Exhibit Hall
10:30am – 3pm
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<td>Regency Ballroom C</td>
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<td>Susan B. Anthony Meeting Rms A &amp; B</td>
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<tr>
<td>Susan B. Anthony Meeting Rm B</td>
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<tr>
<td>Frederick Douglass Meeting Rms A - B</td>
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