PROGRAM

9:00 AM   **BREAKFAST AND EXHIBIT HALL**
Breakfast generously sponsored by Works on Paper, LLC

9:30 AM   **WELCOME AND INTRODUCTIONS**

10:00 AM   **PRESENTATION OF THE *AWARDS FOR EXCELLENCE***
Awards for Excellence generously sponsored by Phillips Art Conservation

10:45 AM   **SPEAKER BLOCK 1**
8 minute speaker presentations

Setting Foundations: Designing a Museum Studies Curriculum that Seamlessly Integrates Science, History, and Art

A. Erik Stengler, Cooperstown Graduate Program of Museum Studies
At the Cooperstown Graduate Program of Museum Studies students can choose a track in either history or science. While the latter is one of its kind in the world, we strongly encourage interdisciplinarity from the moment the students arrive in Cooperstown; for example, with field trips to places like Little Falls, NY, and the American Museum of Natural History where history and science are inextricably intertwined. In a day and age in which visitors seek transformative experiences it is not sufficient to only communicate facts. Instead, it is necessary to address specific topics in a multidisciplinary manner and show how there is no proper understanding of current scientific developments without exploring their historical and societal contexts - and how current events making history are more than ever influenced by science.
Special Note: Will Walker, professor of history at the Cooperstown Graduate Program, will join A. Erik Stengler for the Follow the Speaker portion of this presentation.

Mystery of the Murdered Monarch: Identifying the Remains of Tsar Nicholas II

Michael Perekrestov, Russian History Museum
Nicholas II, Russia's last tsar, was killed in July 1918 along with his wife, five children, and four loyal attendants. Since that time, the fate of their remains has generated myths, speculation, and controversy. This presentation will shed light on new information on the identification of the imperial family's remains that was presented in the 2018-2019 "Last Days of the Last Tsar" exhibition at the Russian History Museum in Jordanville, NY. Specifically, it will highlight the results of a recent DNA analysis conducted by the FBI involving locks of hair found in objects belonging to Russia's last imperial family.

Habitats and Health: STEAM Institute at the Dyckman Farmhouse Museum

Robert Katz, Dyckman Farmhouse Museum
The Dyckman Farmhouse Museum's STEAM Institute, now in its fourth year, has hosted over 70 children and their families from as near as the neighboring apartment complex in upper Manhattan to as far away as Brooklyn, and is a popular offering for long-time patrons and new visitors. STEAM Institute is a great way for kids to get their hands dirty engage in fun, educational activities that connect the history of the past with our present day community, as well as to learn about healthy living choices, foodways, and urban nature. STEAM Institute is a community-oriented, collaborative education opportunity that continues to be a success for visitors and the museum alike.

Pump it UP!: The Development of a Highly Interactive Historical Exhibit

Jamie Quinn, FASNY Museum of Firefighting
The exhibit "Pump it UP!" tells the story of how water gets to a fire and how it is pumped, both today and in yesteryear. Using multiple innovative hands on interactives that explore STEM concepts, the exhibit educates visitors (including firefighters who were fascinated to see the science behind the technology they use) about the technology that makes firefighting possible. This presentation will not only detail the exhibit itself, but will also cover the persistence and partnerships that helped the exhibit become a reality.

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The Science of Art Meets the Art of Science
Laura Lynch, Nassau County Museum of Art
Art meets science in the exhibition *Energy: The Power of Art at the Nassau County Museum of Art*. In a ground-breaking effort for a fine arts museum, top-tier science and major art by Jackson Pollock, Alexander Calder, Jasper Johns, James Rosenquist, Julie Mehretu, Frank Stella, Joseph Cornell and Man Ray are fused in one dynamic and interactive exhibition. During the exhibition, visiting students and teachers embark on a cross-disciplinary exploration of over 50 works of art and artifacts that make visible scientific principles including sub-atomic and electrical phenomena, kinetic, magnetic, and solar energy. Gallery experiences and discussions, designed in collaboration with education staff from Brookhaven National Laboratory and the Tesla Museum, is where students use observation, inference, and evidence-based reasoning to examine works of art through an aesthetic, science and historical lens.

11:30 AM   FOLLOW THE SPEAKER
Want to learn more about the projects and speakers you just heard? Head downstairs to the Appalachian Ballroom for in-depth conversations. Each speaker will host a table.

EXHIBIT HALL AND COFFEE BREAK
Morning coffee generously sponsored by Friends of Clermont

OFFICE HOURS (ADVANCE SIGN UP REQUIRED)
10 minute appointment slots

12:05 PM – 1:00 PM   LUNCHEON
Luncheon generously sponsored by Humanities New York

12:40 PM   OFFICE HOURS (ADVANCE SIGN UP REQUIRED)
10 minute appointment slots

1:00 PM   SPEAKER BLOCK 2
8 minute speaker presentations

STEAMing Collections and Special Events
Katie Boardman, Cooperstown Graduate Program/Cherry Valley Group
How can history, art, and technology collections inspire STEAM interpretation and special events? How does it work at an art and history museum and an operating historic mill site? Consider how to create informal indoor/outdoor pop-up activity stations for kids and adults that support your organization's mission, education goals, event themes, and visitor experience design. Glean practical tips from successes and "needs work" experiences revealed during a Hanford Mills Museum and Cooperstown Graduate Program partnership. Explore a work in progress at the Arkell Museum. What sticks? What doesn't? What shouldn't? Bring questions and an open mind.

Imaging the Invisible: Broadband Multispectral Imaging for Colorant and Restoration Mapping
Dawn Kriss, American Museum of Natural History
Broadband multispectral imaging offers a relatively low-tech, inexpensive option for examining and photographing museum collections at different wavelengths. These photographs can be used to characterize certain materials, including a variety of colorants and features that may not be visible under normal lighting conditions. This rapidly evolving field can identify previously invisible surface decoration, and help distinguish between certain materials that appear similar, thus providing information about material choices and applications, as well as past restoration campaigns. This presentation will briefly

explain the technique, and provide ample examples from a variety of object types and museum collections.

ArtConnects: Museums as Sites of Well-Being
Patrick Stenshorn, Albany Institute of History and Art
There has been a growing awareness of the potential of museums as supportive sites of health and wellness- with many organizations developing programming related to health and well-being work. The Albany Institute of History & Art initiated the Art Connects program for people with Alzheimer's, dementia, and other memory impairments in response to requests from community members for a program similar to the Museum of Modern Art's "MeetMe at MoMA" project. The Art Connects program utilizes AIHA's collections to renew and build social connections for individuals affected by Alzheimer's, dementia, or other cognitive defects, and their caregivers through a meaningful art therapy experience.

Digging Up History: A Youth Archaeology Camp in South Troy, New York
Christopher Hopkins, The Children's Museum of Science and Technology
The summer archaeological camp held by The Children's Museum of Science and Technology (CMOST) allows students a unique hands-on experience with the rich cultural history of Troy, NY. Students learn about archaeological field techniques, data collection, laboratory analysis, and artifact conservation while working on an 18th-century site located in South Troy. The students participate in the creation of a historical narrative through the interpretation of their findings during the camp.

Engaging Researchers Using Augmented Reality (AR) and Open Source Tools (On a Shoestring Budget!)
John Ansley, Marist College Archives and Special Collections
Engaging the next generation of researchers has become more important than ever before. But, how do you do it on a limited budget? This presentation will discuss inexpensive ways to take advantage of open source tools and augmented reality to enhance researcher experience, inspire students, and work with new audiences.

1:45 PM   **FOLLOW THE SPEAKER**
Want to learn more about the projects and speakers you just heard? Head downstairs to the Appalachian Ballroom for in-depth conversations. Each speaker will host a table.

EXHIBIT HALL AND COFFEE BREAK
Afternoon coffee generously sponsored by The Found Object Art Conservation

OFFICE HOURS (ADVANCE SIGN UP REQUIRED)
10 minute appointment slots

2:20 PM   **SPEAKER BLOCK 3**
8 minute speaker presentations

Hey! You got History in My STEM/You got STEM in My History! Taking an Integrated Approach to Educational Programming at a National Historic Landmark
Lynda Kennedy, Intrepid Sea, Air, and Space Museum
Innovations in STEM do not happen in a vacuum or without the involvement of people. This presentation outlines one institution's choice to embrace a both/and rather than an either/or approach to developing programs that embrace the science, engineering and technological advancements inherent in its collections along with the historical context that drove them and the stories of the "humanity behind the hardware" in order to educate and inspire future innovators. Highlighted will be the development of

programs such as the recent NEH-funded summer institute examining the technology of the Cold War and current programming educating the public about New York State's role in aviation advancements.

Making History: Interdisciplinary Workshops for Teens
Brittany Lester, King Manor Museum
In collaboration with teachers from a local middle school, King Manor Museum education staff developed two semester-long curriculums for an interdisciplinary hands-on program combining STEM skills and concepts in early American history. Over the course of seven sessions, students used chemistry, applied mathematics, and logical reasoning in such activities as recreating ink recipes, aging cheese, and mixing their own paint -- skills 19th century people would have used every day. This presentation would explore the successes we celebrated and challenges we encountered in meaningfully connecting teens and scientific concepts to our historic site's collections; ultimately producing positive, tangible results.

What is "Archival?": Decoding ISO 18902
Kate Jacus, The Photo Curator
Delve into the science behind what makes a storage or display product "archival." ISO 18902 is an international standard that was created to help people select photo-safe enclosures and to provide guidance to manufacturers on how to make photo-safe products. Since photographs are so sensitive to outside elements, a standard based on them is a guideline for protecting many different types of objects. By understanding the elements of the standard - the Photographic Activity Test, pH, kappa number, alkali reserve, and color bleed, you'll gain knowledge about the products your institution's objects require for storage.

Powering History with STEAM: Combining Hands-On Science and History in School Programs
Luke Murphy, Hanford Mills Museum
With an increasing emphasis on STEM education, it is imperative for historic sites and history museums to develop programming that involves the sciences, technology, engineering and math from a historical perspective. For this presentation, we will examine how Hanford Mills Museum marries STEM and environmental standards with its mission to explore connections among energy, technology, natural resources and entrepreneurship. We will discuss the creative ways we have brought hands-on science and history to nearly 5,000 students in twenty-one school districts and our work with the Creating Rural Opportunities Partnerships (CROP) Program to provide after school programming on life skills, academic enrichment, cultural and artistic topics, and wilderness and health education

The Hudson River Trading Game & Navigating the Seas: Teaching Science Through History (and Vice Versa)
Shawna Reilly, Historic Cherry Hill
The "Hudson River Trading Game and Navigating the Seas" is an immersive, hands-on program which, in partnership with the Albany Heritage Area Visitor's Center, creatively combines history and science for 4th and 5th grade students. Through student-directed play on a 34-foot game board, students experience the challenges of 18th century travel on the Hudson River. Students also learn about celestial navigation-they make and use quadrants, experiment with lodestones and other navigational tools, chart global trade routes, and learn how sailors relied upon astronomy with an interactive star show. For the past six years, Historic Cherry Hill has partnered with the Port of Albany to provide free field trip admission for City School District of Albany students to attend the program at the Albany Heritage Area Visitors Center.

3:00 PM   **FOLLOW THE SPEAKER**
Want to learn more about the projects and speakers you just heard? Head downstairs to the Appalachian Ballroom for in-depth conversations. Each speaker will host a table.

EXHIBIT HALL AND COFFEE BREAK
Afternoon coffee generously sponsored by AM Art Conservation

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OFFICE HOURS (ADVANCE SIGN UP REQUIRED)
10 minute appointment slots

3:35 PM   **POSTER SESSION:** *AWARDS FOR EXCELLENCE* **RECIPIENTS**
Come hear more about the programs and projects we honored this year!

EXHIBIT HALL

OFFICE HOURS (ADVANCE SIGN UP REQUIRED)
10 minute appointment slots

4:00 PM   **CLOSING AND THANK YOUS**

EXHIBITOR & 50/50 RAFFLE ANNOUNCEMENT

SEND OFF

In 2020, we'll be celebrating our 40th year of service to heritage organizations in New York State. Stay tuned for an exciting year ahead!

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