October 16, 2014 Northeast ASTE Conference Program

Welcome to the American Museum of Natural History

Jessica Riccio, NE-ASTE Regional Director
Amanda Gunning, NE-ASTE Treasurer
Maritza Macdonald, Senior Director of Education and Policy AMNH

3:45-4:00 Check-in/Registration at AMNH

77th Street entrance
Enter between Columbus Avenue and Central Park West

Important Notes:

• Please make sure to come in through the 77th Street entrance. There are many conferences scheduled this day at the Museum. If you try to enter through another door, you might be turned away from other entrances, or (even worse) accidentally sent to the wrong event!

• If you arrive after 4:15, we will be using our discretion as to whether you may join the panel discussion in-progress, or just continue to the Davis classroom for the next event on the schedule.

4:00-5:00 This Year in Conservation Lecture Kaufman Theatre

5:00-6:00 Welcome Reception Davis Classrooms

Please join us to celebrate the beginning of the NE-ASTE conference.

Session One: Presentation

4:00 - 5:00

Thursday, October 16, 2014

Kaufman Theater
Panel Discussion "This Year in Conservation"

AMERICAN MUSEUM & NATURAL HISTORY
CENTER FOR BIODIVERSITY AND CONSERVATION

Mack Lipkin Man and Nature Series
THIS YEAR IN CONSERVATION

THURSDAY, 16 OCTOBER 2014, 4:00 TO 5:00 P.M.

Join leading conservation professionals as they share the experiences and lessons that underscore their careers in marine conservation.

SPEAKERS

Dr. Ayana Johnson
Executive Director,
Waitt Institute

Dr. John Cigliano
Associate Professor and
Director of Biodiversity and
Conservation Biology,
Cedar Crest College

Dr. Lekelia (Kiki) Jenkins
Assistant Professor,
School of Marine and
Environmental Affairs,
University of Washington

Moderator:
Dr. Eleanor J. Sterling
Chief Conservation Scientist,
Center for Biodiversity and
Conservation,
American Museum of
Natural History

This event is free and open to the public. Space is available on a first-come, first-served basis. For more information, please contact us at biodiversity@amnh.org.

Please use the West 77th Street entrance to the Museum, between Columbus Avenue and Central Park West.

The Mack Lipkin Man and Nature Series was established in honor of Dr. Mack Lipkin, Sr., by his many friends and admirers. Dr. Lipkin was a physician who was a gentle and powerful force in advancing the most humane and caring practices of medicine. The Museum is proud to welcome Ayana Johnson, John Cigliano, and Lekelia Jenkins as the 2014 Mack Lipkin Man and Nature Series Fellows.

Speaker appearances supported in part by a grant from the Doris Duke Charitable Foundation for the Museum’s Science Research Mentoring Program.

Thursday, October 16, 2014
8:00am – 8:45
Breakfast/Registration

Room 408 ZB Building (ZB)

8:45am-9am
Welcome Remarks/Overview of the Day
Jessica Riccio, NE-ASTE Regional Director
Amanda Gunning, NE-ASTE Treasurer

Room 408 ZB

Session One, 9-10:30am: Workshops and Presentations

9:00am - 9:30am

Clement Gomes
Teachers College, Columbia University
cvg2101@tc.columbia.edu
Understanding science language using audio technology: Assistive supports for students with learning differences

414 ZB

Maria S. Rivera Maulucci
Barnard College
mriveram@barnard.edu
**Workshop:** A Professional Development Model for Hosting a Family Engineering Night

418 ZB

Nicholas Stroud
Using Argumentation to Teach Nature of Science

Eric Olson
Peter Veronesi
SUNY-Oswego
ericolson@oswego.edu
Science Learning in Building and Art Projects

9:30am - 10:00am

Workshop: The owlet, a new science education website

Workshop: Common Sense in Taking the Fourth Grade Science Test
Beyond Buzzwords: Defining the Field of STEM Teacher Education

Catherine Milne
Jason Blonstein
NYU
cem4@nyu.edu
Exploring the Discourse and Practices of the edTPA

10:00am - 10:30am

Grounded Practice: A Model for Science Teacher Coaching

Diane C. Jammula
Teachers College, Columbia University
dec2142@columbia.edu

The science teacher: An ethnography exploring identity and roles of science specialists in urban elementary schools

Angela M. Kelly
Stony Brook University
angela.kelly@stonybrook.edu
Overcoming Inertia: Adopting Studio Physics in Undergraduate Education

Gail Luera
University of Michigan-Dearborn
grl@umich.edu
The Use of Scaffolded Learning Activities to Address University Students’ Deficiencies in Science Skills

Session Two: Coffee and Conversations/Poster Presentation Gallery Walk
10:30 am - 11:15 am, 4th Floor ZB Hall

Margaret Conover
CESAME, Stony Brook University
margaret.conover@stonybrook.edu
Chia Seeds Promote Cross-Cultural Inquiry in the Elementary Classroom

Michelle R. Turner-Edwards/Angela Kelly
Stony Brook University
michelle.turner@stonybrook.edu
An Examination of Science Teacher Certification in an Urban Setting

Michael A. Conenna
Stony Brook University
m.a.conenna@gmail.com
How has the implementation of Common Core Standards in an urban high school affected science performance?

Judith Gouraige
Stony Brook University
jmgouraige6@gmail.com
An Evaluation of Elementary Classrooms for Print Rich Science Support
Mary Leou/ Megan Davidson/ Becca Susko
NYU
mary.leou@nyu.edu
Science and the Urban Environment: An alternative science course for NYC High School Students

Marjaneh Issapour/Angela Kelly
Stony Brook University
issapom@gmail.com
Relationship of students' interest in science and performance in engineering curriculum

Minsu Ha/ Gena C. Sbeglia/ Ross H. Nehm
Stony Brook University
minsu.ha@stonybrook.edu
Student Learning about Evolution in a Misconception-Focused Class: Implications for Science Teacher Education

Nina Leonhardt/ William Tucker
Suffolk County Community College
leonhan@sunysuffolk.edu
The Teaching Fellow, the Community College Partner and Course Design

Un Jung Lee
Stony Brook University
unjunglee0120@gmail.com
Data Sources for Early Warning Systems in STEM Education: Clicker Score Trajectories and Concept Inventory Scores

Thea Charles
Stony Brook University
thea.charles@stonybrook.edu
Correlation between Quality of Public School Education and Chemistry Regents Scores across the five boroughs of New York City
Session Three, 11:15am- 1:00pm: Workshops and Presentations

11:15am - 11:45 am

Jennifer E Passero
Biological Sciences Curriculum Study (BSCS)
jepassero@gmail.com
**Workshop:** Formative Assessment Tools

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Fernand Brunschwig
Teachers College & STEMteachersNYC
fbrunsch@gmail.com
**Workshop:** A hands-on investigation of the motion of an electrical "buggy" - as an illustration of the modeling approach to teaching science

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11:30am – 12:00pm

Regina Toolin
University of Vermont
Rtoolin@uvm.edu
CREST - Champlain Research Experience for Secondary Teachers

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Jennifer D. Adams
Dan Meharg
Brooklyn College
jadams@brooklyn.cuny.edu
Extending classrooms into parks through informal science learning and place-based education
12:00 pm-12:30 pm

Mariah Hamel
Plot.ly
mariah@plot.ly
**Workshop:** Data analysis and graphing with Plotly

Stacey Greengold
Stony Brook University
stacey.greengold@stonybrook.edu
Walking up the down escalator: Teachers’ conceptions about chemical equilibrium and their use of analogies in the classroom

Caren Gough
Ross H. Nehm
Minsu Ha
Stony Brook University
caren.gough@stonybrook.edu
Exploring the impact of multi-level professional development program genomic approaches in the biosciences

12:30pm-1:00pm

Dennis M. Robbins
Hunter College
drobb@hunter.cuny.edu
Sputnik Moments: Moral Panics in Science Education
Keith Sheppard  
Linda Padwa  
Stony Brook University  
keith.sheppard@stonybrook.edu  
Chemistry Teaching in New York State: Past, Present and Future  

Daniel Wolff  
Rosamond Kinzler  
AMNH  
dwolf@amnh.org  
Strengthening the Curriculum Mapping Experience in an Urban Teacher Preparation Program  

Will Snyder  
University of Massachusetts Amherst  
wsnyder@umext.umass.edu  
Experiences of Science and Civic Engagement in a High School Community Research Curriculum

Lunch Break  
Teachers College Cafeteria, Ground Floor Grace Dodge Hall  
1:00pm - 2:00pm  
*Please remember to bring your lunch voucher given to you at check-in.

Session Four, 2:00pm - 3:30pm: Presentations  

Jim Short  
Dora Kravitz  
American Museum of Natural History  
jshort@amnh.org  
Integrating Science Practices with Common Core Literacy Strategies Using Teaching Cases and Online Data Tools
Jason S. Wu
Teachers College, Columbia University
jasonwu@columbia.edu
English Language Learners’ Native Language Use in a Secondary Science Classroom: A Pilot Study

Konstantinos Alexakos
Kenneth Tobin and Malgorzata Powietrzynska
Brooklyn College – CUNY
kalexakos@gmail.com
Multi-Level Research on Emotions and Mindfulness in Science and Science Education

Mubina Khan Schroeder
New York University/Molloy College
mschroeder@molloy.edu
Questioning and Metacognitive Thinking: On-line and off-line assessments in understanding the role of prompting/questioning and metacognitive thinking in a digital chemistry learning environment

Jacqueline McLaughlin
Melissa Coyle and Rose Baker
Pennsylvania State University Lehigh Valley
jshea@psu.edu
Transforming Undergraduate Labs into Research Environments

Catherine L. Quinlan
NJ High School Biology Teacher
clk8@tc.columbia.edu
Using an astrobiology approach in the high school biology classroom - an exploratory study

Stephanie Wortel
Stony Brook University
stephanie.wortel@stonybrook.edu
Science Researchers’ Perspectives on K-12 Science Teaching Before and After Clinical Teaching Experiences

Dave Liam Johnston
Shelley C. Kurland
Montclair State University
johnstond5@mail.montclair.edu
How can we help you? Using responsive coaching to support transformative teaching with digital technology in science classrooms

3:00pm-3:30 pm

Leslie Day
www.fieldguidenyc.com
leslieday@me.com
Nature in the City

Denise Mahfood
Teachers College, Columbia University
dm2564@tc.columbia.edu
Persistence in Science: Science Identity Development for Undergraduate Students of Color

Ernest Poole
CUNY Graduate Center
epoole@gc.cuny.edu
Emotions, Mindfulness, Wellness, & Harmony in Teaching/Learning

Duane Wallace
Alec Bodzin
Lehigh University
duane@duanew.com
Affordances of Mobile Learning Technologies in the Environmental Sciences

Business Meeting: 3:30pm-3:45pm
NE-ASTE: All Welcome to Attend
Room 408 ZB
Closing Reception and Poster Presentations
4:00pm
Everett Lounge 1st Floor ZB

The Department of Mathematics, Science, and Technology at Teachers College, Columbia University cordially invites you to

A Celebration of STEM Education at Teachers College
Honoring Science Educators in the Northeast

and

Dr. O. Roger Anderson

on the occasion of 50 years of service to the Teachers College community

Friday, October 17, 2014, 4-6 p.m.
Everett Lounge, Teachers College
525 West 120th Street