

# Thursday

## Abbreviation Key

**E:** Elementary School

**MS:** Middle School

**HS:** High School

**2Y:** Two-Year College

**4Y:** Four-Year College

**GA:** General Audience

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**9:00 AM – 3:00 PM****San Diego Zoo's ICR & Safari Park****Meet in Lobby for Bus • Field Trip (Tickets Required) • GA (SOLD OUT)**

Visit the Beckman Center, home of the San Diego Zoo Institute for Conservation Research, and take an exclusive tour of the facility. Along the way, you will learn about eight research teams: Community Engagement, Conservation Genetics, Reproductive Sciences, Disease Investigations, Global Partnerships, Recovery Ecology, Plant Conservation, and Population Sustainability. The tour will include visits to research labs and a stop at the innovative *Frozen Zoo*. The tour will be led by members of SDZ's Community Engagement team, who will also highlight classroom resources, conservation science curriculum, field trips, and teacher professional development opportunities.

This field trip also includes admission to the San Diego Zoo Safari Park, allowing participants to explore the impressive exhibits at this unique facility.

**11:30 AM – 1:00 PM****NABT Board of Directors Meeting & Leader Lunch****Executive Conference 1 • Committee Meeting • Invitation Only****11:15 AM – 3:30 PM****1671 • Developing and Using Mini Case Studies to Accompany HHMI BioInteractive Resources****Nautilus 3 • Instructional Strategies • Special Workshop (Tickets Required) • HS, 2Y, 4Y**

Experience and then develop your own mini case study that uses HHMI BioInteractive resources to engage students to think scientifically.

Phil Gibson, University of Oklahoma, Norman, OK; Annie Prud'homme-Genereux, TELUS World of Science - Edmonton, Edmonton, AB, Canada; and Melissa Csikari, HHMI BioInteractive, Chevy Chase, MD

**1677 • Math and Stats in the Biology Classroom with HHMI BioInteractive****Nautilus 2 • Science Practices • Special Workshop (Tickets Required) • HS, 2Y**

Conquer basic math and statistics used in biology while exploring classroom-ready resources. Concepts will include central tendency and variation, spreadsheet skills, graphing, and data analysis with Chi-Square and T-Tests.

Kristine Grayson, University of Richmond, Richmond, VA; Bob Kuhn, Centennial High School, Roswell, GA; and Karen Lucci, Hopewell Valley Central High School, Pennington, NJ

**12:30 PM – 3:30 PM****1412 • Using Guided Inquiry to Teach Anatomy and Physiology Core Concepts****Marina 5 • Anatomy & Physiology • Special Workshop (Tickets Required) • HS, 2Y, 4Y**

This workshop will help A&P educators determine what to teach and how to teach it. Participants will explore inquiry-based curriculum materials that address core concepts of anatomy and physiology.

Murray Jensen, University of Minnesota, Minneapolis, MN and Kerry Hull, Bishop's University, Lennoxville, QC, Canada

**1534 • Using the NGSS Storyline Approach to Help Students Understand the Processes of Science and Global Change****Seabreeze 1 • Instructional Strategies • Special Workshop (Tickets Required) • MS, HS, GA**

Experience how the Understanding Science and Understanding Global Change resources support the scientific practices of posing and investigating questions about complex phenomena, such as sea level rise.

Jessica Bean, Museum of Paleontology, UC Berkeley, Berkeley, CA and Abraham Lo, BSCS Science Learning, Colorado Springs, CO

**1:00 PM – 3:00 PM****NABT/BSCS AP & Biology Teacher Academy Leader Workshop****Executive Conference 4 • Instructional Strategies • Invitation Only**

1:00 PM – 3:30 PM

**1663 • 20 in 20: The Next Chapter**

**Marina 2 • General Biology • Special Workshop (Tickets Required) • MS, HS, 2Y**

Come try numerous 20-minute inquiry-based activities that will engage and excite your students. You and your students will be glad you did!

Whitney Hagins, MassBioEd/BioTeach, Cambridge, MA

2:00 PM – 3:30 PM

**1616 • Teaching Scientific Practices Through Historical Inquiry Cases**

**Spinnaker 2 • Science Practices • Special Workshop (Tickets Required) • HS, 2Y, 4Y**

Participate in a sample inquiry class, following the notable historical work of Dave Keeling as he measures carbon dioxide in the atmosphere. Discussion of teaching skills and other cases follows.

Douglas Allchin, University of Minnesota, Saint Paul, MN

3:00 PM – 3:30 PM

**NABT Open Forum**

**Executive Conference 1 • Committee Meeting • GA**

Join NABT leaders and volunteers for an interactive discussion that highlights “the state of the association,” ongoing projects, and upcoming initiatives to better support you as an educator. Committee chairs, section chairs, and regional coordinators will be on hand to answer questions about getting more involved with NABT.

4:00 PM – 5:35 PM

**GENERAL SESSION SPEAKER**

**Katie Hinde**

➔ See page 8 for biography.

**Baby Mine: 300 Million Years, the Evolution of Mother’s Milk, and the Rise of the Mammals**

**Grand Ballroom • Special Speaker • GA**

Did you know mother’s milk is older than dinosaurs? Or that the “biological recipe” of milk differs for sons and daughters? Or that a mother’s milk changes across time? Mother’s milk is food, medicine, and message that organizes a baby’s brain, body, and behavior. What we take for granted in the grocery store dairy aisle has been shaped by hundreds of millions of years of natural selection. This precision medicine and personalized nutrition has not been a primary target of biological research, but 21st Century scientists have made amazing advances in how we study and have come to understand the first substance a mammalian neonate is adapted to consume. Importantly, as we better unlock the mysteries of milk, we gain essential new tools for human health and well-being.

3:00 PM – 3:45 PM

**NABT/BSCS AP & Biology Teacher Academy Meet Up**

**Executive Break Area • Special Program • Invitation Only**

All participants of the NABT/BSCS AP & Biology Teacher Academies are invited to “meet-up,” network with other program leaders and participants, and enjoy a light snack before the opening general session.

Sponsored by



**Graduate Student Meet Up**

**Marina 1 • Special Program • GA**

CALLING ALL GRADUATE STUDENTS! You are invited to an informal Meet & Greet to meet other student members of NABT and learn more about programs and opportunities designed specifically for students.

5:30 PM – 7:30 PM

**Exhibit Hall Opening Reception**

**Pavilion • Special Event**

Kick off the NABT Conference *California style* by meeting us outside for a unique exhibit hall experience. The 2018 NABT Exhibit Hall showcases the very best resources and products available to biology teachers. Whether you’re looking for that old favorite or new innovation, you’ll want to visit all of our sponsors and exhibitors this year.

Special thanks to



for sponsoring the 2018 NABT Opening Reception.

6:30 PM – 7:30 PM

**Past President Meeting Invitation Only**