

THURSDAY

NOV 9

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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ST. LOUIS
2017

8:00 AM – 3:00 PM**178 • Incorporating Authentic Research into Introductory Biology Labs****Wabash Cannonball** • Instructional Strategies • Invitation Only

By the end of the workshop, participants will have a preliminary plan for the development, implementation, and assessment of a research module for an introductory lab course.

Christopher Beck and Rachele Spell, Emory University, Atlanta, GA and Kristen Miller, University of Georgia, Athens, GA

10:30 AM – 1:00 PM**NABT Board Meeting and Leader Lunch****Frisco/Burlington Route** • Committee Meeting • Invitation Only**11:15 AM – 3:45 PM****314 • Introductory Statistics in Biology Classrooms****Regency B** • Science Practices • Special Workshop (Tickets Required) • HS, 2Y, 4Y

Learn fundamental statistical concepts related to variation and hypothesis testing such as standard error of the mean, confidence intervals, and t-tests. Analyze data and develop presentation-ready representations using spreadsheet software.

Valerie May, Woodstock Academy, Woodstock, CT and Satoshi Amagai and Paul Beardsley, HHMI, Chevy Chase, MD

11:30 PM – 3:30 PM**Donald Danforth Plant Science Center****Donald Danforth Plant Science Center** • Field Trip (Tickets Required) • GA

The Donald Danforth Plant Science Center (DDPSC) is the world's largest independent nonprofit research institute focused on plant science. Twenty-two scientific teams conduct basic and applied research to sustain and improve agriculture with lessened environmental impact, biofortify the world's major food crops, improve photosynthesis and energy capture, and develop strategies to render plants more resistant to drought, pests, and disease.

1:00 PM – 3:30 PM**233 • 20 in 20: The Next Chapter****Grand B** • General Biology • Special Workshop (Tickets Required) • MS, HS, 2Y

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

Whitney Hagins, MassBioEd/BioTeach, Cambridge, MA

303 • Understanding Global Change (UGC): A New Interdisciplinary Conceptual Framework and System Models to Integrate Climate and Earth System Science into Biology Curricula**Grand C** • Ecology / Environmental Science / Sustainability • Special Workshop (Tickets Required) • MS, HS, GA

Climate and global change can be seamlessly interwoven into ecology and evolution lessons, but need to be conceptually linked to biology content. UGC resources guide their integration into existing curricula.

Jessica Bean, University of California Museum of Paleontology, Berkeley, CA and Joseph Levine, Organization for Tropical Studies, Concord, MA

1:00 PM – 3:30 PM continued**INTRO BIO TASK FORCE****77 • IBTF Symposium - Common Competencies and Science Practices in K-18 Biology Education****Illinois Central** • General Biology • Special Workshop (Tickets Required) • HS, 2Y, 4Y

Join the NABT Introductory Biology Task Force (IBTF) for the next series of unpacking skills highlighted in guiding documents like the NGSS, AP Biology Curriculum Framework, and Vision and Change. Biology educators from all levels will engage in discussions and activities to help students succeed along the continuum of biology education.

NABT Intro Bio Task Force

1:30 PM – 2:45 PM**NABT Open Forum****Regency A** • Special Program • GA

Join NABT leaders and fellow members in this interactive format that highlights "the state of the association." Learn more about ongoing projects, upcoming initiatives, and ways you can get involved. Your participation helps NABT continue to be the "leader of life science education," and everyone is invited to contribute.

3:00 PM – 3:45 PM**NABT / BSCS AP Biology Academy Reception****Grand A** • Special Program • Invitation Only

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4:00 PM – 5:15 PM**GENERAL SESSION SPEAKER****Derek Arndt**

➔ See page 8 for biography.

Pulse of the Planet: Measuring Change in the Global Climate

Grand Ballroom D, E, F • Special Speaker • GA

Climate change and its impacts are both obvious and pervasive, through measurement and experience. Climate change itself is controversial in some circles, and its connections to certain extreme weather hazards are controversial even within science. The globe has warmed by nearly two degrees Fahrenheit in the last century. How much of that has been driven by human, versus natural, activity? Through September, 15 separate weather and climate disasters have caused at least one billion dollars in direct damages in the United States. How are these events related to climate change? This presentation will examine climate change, from the lens of the institution tasked to calculate both the rate of warming and the number of billion dollar disasters, and will explore the relationships between climate and extreme weather, and share insights on what can be learned from history.

5:30 PM – 7:30 PM**Exhibit Hall Opening Reception**

Midway • Special Program • GA

You are the guest of honor at this special opening reception of the 2017 Exhibit Hall. Showcasing the NABT sponsors and exhibitor community, the exhibit hall is the place to get the tips and tools that will help you enhance your teaching and engage your students. Join us for complimentary appetizers and beverages as we kick off the NABT Conference in style.

6:30 PM – 7:30 PM**Past Presidents Meeting**

President's Suite • Committee Meeting • Invitation Only

Leader Meet Ups to Help You Get Involved with NABT

Pegram • Committee Meeting • GA

Is it time for you to get more involved with the NABT Community? Learn more about the different opportunities available from our volunteer leaders. Committee Chairs, Section Chairs, and Regional Coordinators will be on hand to highlight NABT programs and answer your questions.

Thursday, November 9

Committee and Section Chairs

6:00 PM – 7:00 PM

Friday, November 10

Regional Coordinators

4:00 PM – 5:00 PM

this
is digital learning

Attend these lab sessions in the Pearson Lab (booth #50) to learn how to get the best out of Mastering Biology® and request a copy of Campbell *BIOLOGY*, 11e or *Biology in Focus*, 2e.

Thursday, November 9

- 5:30 PM **Scientific Reasoning Strategies for the AP Biology Exam**
Fred & Theresa Holtzclaw, *The Webb School of Knoxville*
- 6:00 PM **A Teacher's Insight Into Using Mastering Biology**
Valerie May, *Woodstock Academy*
- 6:30 PM **Mastering Biology Support: Ask the Expert!**
Pearson Team, *Pearson*

Friday, November 10

- 10:00 AM **How to Get the Most Out of Mastering Biology for Beginners**
Josh Frost, *Pearson*
- 10:30 AM **Preview the NEW LabBench**
Fred & Theresa Holtzclaw, *The Webb School of Knoxville*
- 11:00 AM **Students' Best Advice on Using Mastering Biology**
Diane Sweeney, *Sacred Heart Preparatory*
- 11:30 AM **Help Your Students Develop Strong Science Practice Skills**
Lisa Urry, *Author, Mills College*
- 12:00 PM **Students' Perspective on Mastering Biology**
Mike Judge, *Sacred Heart Preparatory*
- 1:00 PM **A Teacher's Insight Into Using Mastering Biology**
Valerie May, *Woodstock Academy*
- 1:30 PM **Early Alerts in Mastering Biology: Help For Struggling Students**
Jodi Bolognese, *Pearson*
- 2:00 PM **Using Mastering Biology? Deepen Your Students' Experience with Active Learning Resources**
Josh Frost, *Pearson*
- 2:30 PM **AP Environmental Science and Mastering**
Mike Judge, *Sacred Heart Preparatory*
- 3:00 PM **Using Learning Catalytics to Create an Interactive Classroom**
Rebecca Orr, *Collin College*
- 3:30 PM **Students' Best Advice on Using Mastering Biology**
Diane Sweeney, *Sacred Heart Preparatory*
- 4:00 PM **Develop Students' Science Literacy Skills Using Mastering Biology**
Debbie Schmidt and Christa Pelaez, *Pearson*
- 4:30 PM **Scientific Reasoning Strategies for the AP Biology Exam**
Fred & Theresa Holtzclaw, *The Webb School of Knoxville*

