



THURSDAY

DAY





11:30AM - 1:30PM

NABT Board of Directors Meeting & Leader Lunch

204-205 (Level 2) • Committee Meeting
• Invitation Only

11:30AM - 3:30PM

3416 Interactions in General Education Life Science Courses (IGELS): Tools, Tips, & Strategies to Enhance Undergraduate Biology for Non-majors

201-203 (Level 2) • Instructional Strategies • Special Workshop (Tickets Required) • 2Y, 4Y

This interactive, inquiry-based workshop will engage participants in practical activities to help students see the relevance and importance of science to their lives and increase their reasoning and science process skills. Presenters will share strategies and practices to enhance the learning of biology through a focus on interactions, DEI considerations, civic engagement, identifying appropriate curricular resources, and alternative assessments. Participants will leave the workshop with ideas and materials they can immediately implement in their own courses, as well as information about becoming part of this growing network of general education instructors and researchers through the NSF-funded IGELS project.

Bryan Dewsbury, Florida International University, Miami, FL; Sam Donovan, BioQUEST, Pittsburgh, PA; Karla Fuller, Gutmann Community College, New York, NY; Tamar Goulet, University of Mississippi, MS; Justin Hoshaw, Waubensee Community College, Sugar Grove, IL; Kristin Jenkins, University of Texas at Austin, Austin, TX; John Moore, Taylor University, Upland, IN; Heather Rissler, North Iowa Area Community College, Mason City, IA; Davida Smyth, Texas A&M University-San Antonio, San Antonio, TX; Gordon Uno, University of Oklahoma, Norman, OK

Sponsored by **PROJECT IGELS**



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SPECIAL PROGRAMMING PRESENTED BY HUDSONALPHA

3411 HudsonAlpha's FILTERED: A Story-Driven Approach to Bioinformatics Concepts

JW Grand 3 (Level 3) • General Biology • Special Workshop (Tickets Required) • HS, 2Y

FILTERED: a story-driven digital learning platform for bioinformatics is an online module that introduces students to the biological concepts and logical thinking skills used in bioinformatics and DNA analysis. **FILTERED** seeks to build a conceptual understanding of the function of commonly used computational tools by engaging students in a series of puzzle games that simulate the computer's function in DNA analysis. Set in a fictitious global pandemic, **FILTERED** anchors students in biological content that is eerily applicable today.

Madelene Loftin, Michele Morris, and Neil Lamb, HudsonAlpha Institute for Biotechnology, Huntsville, AL

Sponsored by



3425 Writing Selected-Response Items for HHMI BioInteractive's Assessment Builder

JW Grand 4 (Level 3) • Curriculum Development • Special Workshop (Tickets Required) • HS, 2Y, 4Y

We will explore effective practices for constructing and reviewing selected-response assessment items. You may submit the items you develop to Assessment Builder, a crowdsourced database of high-quality biology questions.

Rebecca Orr, Collin College, Plano, TX and Peggy Brickman, University of Georgia, Athens, GA

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12:30PM – 3:30PM

3362 Using Guided Inquiry to Teach Anatomy and Physiology Core Concepts

JW Grand 1 (Level 3) • Anatomy & Physiology • Special Workshop (Tickets Required) • HS, 2Y, 4Y

Participants will explore inquiry-based activities addressing homeostasis and, more specifically, cardiovascular physiology. In these activities, students use scientific process skills to develop understanding of core concepts in anatomy and physiology.

Murray Jensen, University of Minnesota, New Brighton, MN and Kerry Hull, Bishop's University, Sherbrooke, QC, Canada

3408 Storylining in Biology for Coherent Instruction

JW Grand 2 (Level 3) • Instructional Strategies • Special Workshop (Tickets Required) • HS

Storylines led by engaging phenomena improve student engagement and understanding of the overarching biological concepts. Using phenomena to anchor instruction and lead instruction are modeled in the workshop.

Jason Crean, All Species Education Consulting, Orlando, FL and Kristin Rademaker, All Species Education Consulting, Freeport, IL

2:30PM – 3:00PM

NABT Open Forum

204-205 (Level 2) • Committee Meeting • GA

The NABT Board of Directors and Executive Director will lead this interactive discussion focused on the current state of the association. They will also share updates on the strategic planning process that has been initiated. Everyone is invited to learn more about our operations, provide feedback on the programs we support, and get involved with NABT.

4:00PM – 5:30PM

GENERAL SESSION

Tracie Delgado

➔ See biography on page 8

Mentoring Strategies That Promote Diversity & Inclusion in the Sciences

White River Ballroom (Level 1) • Special Speaker (90 min) • GA

As a Latina who grew up in poverty, the cards were stacked against Tracie Delgado to attend college and reach her dreams of becoming a scientist. Dr. Delgado will share the struggles she encountered and the role of mentors in her life that have allowed her, and others like her, to obtain advanced degrees in the sciences. As a teacher-scholar, she values the opportunity to mentor undergraduate students both in the classroom and in the lab.

The Delgado research lab aims to understand how gammaherpesviruses cause cancer by altering host cell metabolism, and experiments are completely undergraduate student-driven. Her student-researchers lead their own independent research projects, search literature in the field, ask questions, write experimental protocols, generate data, and present their findings at research conferences. Dr. Delgado will share her inclusive mentoring strategies in developing independent scientists and her efforts to promote diversity and inclusion in the sciences.

5:30PM – 7:30PM

Exhibit Hall Grand Opening Reception

JW Grand 5-6 (Level 3) • Special Event • GA

We welcome you to Indy with a special opening of the 2022 NABT Exhibit Hall. Our vendor and partner community will showcase the latest and greatest resources for teaching biology, helping you find those familiar favorites and new innovations.

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6:30PM – 7:30PM

NABT Past President's Advisory Council Meeting & Reception

Presidential Suite • Invitation Only