47th Annual HASTI Conference Program – DRAFT

Wednesday, February 14 – WORKSHOPS

101. Crash Course on Moodle – Quiz Question Types – Tests, Quizzes and Other Assessment Types
    General – Interdisciplinary
102. STEM at the Zoo
    General – Interdisciplinary
103. Lab Safety Short Course
    General – Interdisciplinary
104. Picture-Perfect Science: Using Children's Literature to Inspire STEM Learning
    K-5 - STEM
201. Connecting youth with nature through The Nature of Teaching
    Elementary – Environmental Science
202. Accessible Analysis: Camera Colorimetry
    HS/College – STEM
203. Hands on Biotech with Bio-Rad
    HS – Life Science

Thursday, February 15 – Share-A-Thons (30+ teachers sharing lessons)
    Elementary Share-A-Thon – 9:00 am
    STEM Share-A-Thon – 2:00 pm

Thursday, February 15 – Association Meetings
    IABT Quick Hits – 3:00 pm
    IABT Meeting – 4:00 pm
    IESTA Share-A-Thon – 2:00 pm
    IESTA Rock Raffle – 3:00 pm
    IESTA Meeting – 4:00 pm

Thursday, February 15 – BREAKOUT SESSIONS

22-IN Rem*ind Not a Blank Canvas Rewind*
    General – Interdisciplinary
The participants will get a chance to set up a Remind Account if they have a computer and will get a good opportunity to share how they use Remind, Canvas and Promethean Screens.

8-IN Getting Beyond Forgetting
    General – Interdisciplinary

Explore the basics of how the brain learns. Learn, through participation, several pedagogical strategies you can use to ensure students don't forget what you teach.

17-IN Diagnosis Learning
General – Interdisciplinary
Learn how to use medical diagnosis to teach science content and critical thinking skills

12-IN Co-Teaching 2.0
MS/HS – Interdisciplinary
Current co-teachers share strategies on curriculum modifications, classroom structure, assessments, and behavior strategies. Take away ideas to implement in a co-teaching setting!

8-IN Utilizing Service-Learning to Strengthen STEM K-12
Ele/MS/HS – Interdisciplinary
Service-learning provides K-12 students opportunities to apply knowledge in practical situations and develop skills by experiencing connecting theory with practice while actively engaged in STEM.

4-IN Real Assessment through authentic project based work
Ele/MS/College – Interdisciplinary
Creating opportunities to use and analyze authentic student work will be discussed through the use of field journals, artifact boards, documentation panels, and student snapshots.

1-ST Free Health and Science K-12 Resources
Ele/MS/HS/College – STEM
Discover many free K-12 science/health education online resources.

2-ST Modeling: Do High-School Students Who Like STEM Learn STEM?
MS/Gen – STEM
Learn about STEM modeling activities to engage students and a discussion on 2017 NISMEC STEM workshops and plans for 2018.

3-ST Where Chemistry and Algebra Collide
HS – Physical Science/STEM
Learn about activities that can be utilzed in chemistry/algebra classrooms to address cross-curricular standards.

5-ST Zoo Designs
General – Life Science/STEM

From how animals are designed to how we design for animals – STEM is used at the Zoo.

6-ST Using Phenomena to Engage Students (Commericial)
ELE/MS/HS – STEM/Science Education
Explore examples of phenomena based lessons to get you started on your own phenomena lessons.

9-ST Integrating STEM into Your Classroom
ELE/MS/HS/College – STEM/Interdisciplinary/Science Education
Helping educators move from inserting fun STEM projects into a standards-driven classroom, to affording students voices and choice through STEM

17-ST Teaching Programming with a Block-Based Language
ELE/MS – STEM/Science Education
Programming with the web-based block language Scratch to address computer science standards (BYOD)

18-ST Science Teacher/STEM Teacher - What's the Difference? (Commercial)
General – STEM/Science Education
Discussing the unique nature of STEM, research-based instructional strategies, and the STEM certification pathway.

19-ST DIVE-In Engineering: A New Idea for the Maker Movement (Commercial)
ELE/MS – STEM/Science Education
Investigation of the DIVE In process, modeling of facilitation techniques, and obtaining new maker ideas

25-ST Mindset 2.0 (Commericial)
General – STEM/Interdisciplinary
There are many benefits to having a growth mindset. This session will introduce strategies to take you and your classroom to the next level of Growth Mindset.

1-EL Animal Enrichment Challenge with the Indianapolis Zoo
Ele/MS – STEM/Life Science
Explore the world of animal enrichment and learn how you can have your students involved in an Animal Enrichment Challenge with the Indianapolis Zoo.

2-EL Teach Basic Genetics to Elementary Students Using the Traits of Dragons

Ele – Life Science

Use color scratch dragons to help elementary students learn about heredity and how traits are passed on to each generation.

3-EL Zoos are the Swiss Army knife in your Education Toolbox!

Ele – Life Science

Discover how to meet standards and curricular needs while at the Zoo. Take education outside!

4-EL 40 Outstanding and Engaging PreK-6 STEM iPad Apps

Ele – Interdisciplinary

Discover excellent, engaging, and challenging STEM iPad apps with links to award-winning children's books. Practical tips for integrating them into the curriculum will be presented.

5-EL Literacy, Science, and your Morning Calendar

Ele – Ecology

Join us as we look at integrating science with your morning calendar and literacy curriculum. This session will incorporate hands-on activities and literacy resources.

8-EL Integrating 4th Grade Science and Computer Science

Ele – Interdisciplinary

How do we start thinking about including computer science in our science classrooms? Join us as we demonstrate an integrated computer science

12-El Elementary Talk panel

Ele – General

Join other elementary teachers in discussing issues unique to the elementary setting.

1-MS Modeling: Do middle school students who like STEM learn STEM?

MS – STEM

Two short STEM Modeling activities show how to engage your science students; we will discuss briefly 2017 NISMEC STEM Modeling workshops

2-MS YES (Teachers) You Can Code!

MS – Interdisciplinary

Presenters will share their experiences of successfully bringing computer science to their Junior High Schools.

4-MS Saving Lives Every Day: The Science of Donation

MS – Life Science
Learn how to incorporate information and classroom activities related to advances in the science of organ and tissue donation and transplantation.

5-MS Bomb Squad 101
Ele/MS/HS Interdisciplinary
In this jam-packed session you will learn research-based strategies and techniques to improve student focus, reduce problem behavior, and increase instruction time.

6-MS Making Sense of Classroom Investigations Through Writing & Talking (Commercial)
Ele/MS – Interdisciplinary
There are many benefits to having students both write and talk in the science classroom. Learn how to use both for increased student understanding.

7-MS Space Camp & Beyond (Commercial)
Ele/MS – Interdisciplinary
Learn how to apply for Educators Space Camp Academy, engage students, become a curator of a National Treasure, and resources galore!

8-MS Technical Writing In Middle School Science
Ele/MS/HS – Interdisciplinary
Increase student writing and literacy with relevant, realistic, and rigorous ideas. Receive examples and collaborative "make and take" time to create technical writing for your classroom.

4-PS Electrochemical Cells: The Voltaic Pile and Other Battery Activities
Ele/MS/HS/College – Physical Science
Session participants will recreate history by constructing working Voltaic piles. Included will be a discussion of other explorations with dry cell batteries.

5-PS Motion Inquiry with Toy Cars
Ele/MS/HS/College –Physical Science
Session participants will learn about a variety of guided and unguided inquiry activities making use of inexpensive toy cars.

7-PS Performance-Based Assessment in Physics
MS/HS – Physical Science
Practicums (aka performance-based assessments) are demonstrated and shared for physics classrooms. Most require very simple equipment, although they are adaptable for computer-based equipment

10-PS Help VERITAS Hunt for Muons with Zooniverse
HS/College – Physical Science
Come learn how your class can directly help astrophysicists discover the secrets of the Universe at its highest energies

11-PS Teaching Physics on a Conceptual Basis
HS/College – Physical Science
We present a demonstration about how sophisticated concepts such as relativity can be taught on a conceptual and visual basis

12-PS Hands-on with Wind Energy
MS/HS – Physical Science
Come experience how your students can learn about renewable energy, scientific inquiry, and basic physics and engineering principles by building their own model wind turbines

4-SE Who Writes ISTEP+ Anyway?
Ele/MS/HS – Science Education
Learn how state assessments are created and how the new ILEARN assessment will incorporate the 2016 science and computer science standards.

1-C Mastering the Chemical Formula (Commercial)
HS – Chemistry
Students not understanding the chemical formula? Moles, reactions and stoichiometry are hopelessly confusing. Join us for intuitive lessons for all students to master the formula.

2-C Chemistry Quick Labs
HS – Chemistry
Engage students in learning chemistry concepts with a variety of hands-on lab activities.

3-C Flipping the Science Class
HS – Chemistry
Details about two units from a flipped classroom. A unit covering stoichiometry for Honors Chemistry will be presented.

4-C Modeling for Chemistry Instruction
HS –Chemistry
Additional modeling for chemistry instruction. In this hands-on workshop, we will go through several activities that will demonstrate how modeling encourages student engagement and student centered classrooms.

5-C The Chemistry Conversation Pit

HS –Chemistry

Join us for an unscripted opportunity to meet and talk about chemistry and the teaching of chemistry. Everyone is welcomed.

2-EN Dragons, Deer, Monsters, and SO much more!

HS – Environment/Life Science

Explore interactive ways to teach concepts in genetics, ecology, classification and more. Experience the activities and leave with materials to use in your classroom!

3-EN Aye-Ayes, Baobabs and Cheetahs: Exploring Conservation in Madagascar & Namibia

General – Environment/Life Science

Learn about two unique African countries, Madagascar and Namibia, and the relationships between their biodiversity, population density, and environmental philosophy and conservation efforts.

5-EN Modeling the Introduction of a New Species (Commericial)

MS – Environmental/Life Science

New Species in an Ecosystem? This card sort activity models the introduction of a new species with special attention to the effect on existing predators and producers.

6-EN Hawaii Marine Science Field Studies

HS – Environmental/Life Science

Join Mr. Steve Makurat to learn how he engages students on the Big Island of Hawaii through intensive study in a favorite field—Marine Science.

7-EN EarthDo with Earthwatch – Be a Scientist this Summer!

General – Environmental Science

Learn about Earthwatch's volunteer programs for teachers and students who work alongside scientists across the nation and world, and how to fund your trip.

8-EN Using Citizen Science to Enhance Classroom Teaching

Ele, MS, HS – Environmental/Life science

Citizen Science allows students to collaborate with professional scientists as they collect and analyze data. We will explore and demonstrate a variety of Citizen Science opportunities.

2-B Tracking Genetically Modified Mosquitos
MS/HS/College – Life Science
Use free resources from HHMI Biointeractive to investigate the impact of releasing GM mosquitos into the wild. Skills reinforced: Eperimental design, analyzing dta, graphing, and statistics.

4-B Breeding Critters (Commercial)
MS/HS/College – Life Science
Genetics more meaningful? Join us for an activity sequence from LAB-Aids that layes a framework for dominant/recessive as well as other patterns of inheritance.

5-B Teach Photosynthesis & Cellular Respiration
HS – Life Science
Engage in an overview of the steps of photosynthesis and cellular respiration, using simplistic materials, such as pop beads and ping pong balls.

6-B IABT Quick Hits
MS/HS – Life Science

8-B Using Videos to Enhance Anatomy & Physiology Instruction
HS – Life Science
This session will share free videos and help sites for classes teaching Human Anatomy & Physiology in the high school setting.

9-B Using Medical Imaging to Engage Health Science Students in Physics
HS/College – Life Science
Health science students are usually disinterested in physics. However, using medical imaging we can add relevance and demonstrate the longstanding history between physics and medicine.

11-B The Science Classroom Magic of the Multifaceted ELISA Assay! (Commercial)
MS/HS/College – Life Science
Come & discover how data for conservation efforts, climate change, GMO's, drugs and infectious agents (even zombie viruses) can be elucidated using the ELISA technique

1-ES 2017 Solar Eclipse Lessons and Preparing for 2024
General/Interdisciplinary
I will describe experiments I conducted during the August 21, 2017 solar

5-ES Earth and Space Science Action Plans
General – Earth Science
Build an action plan to use with students that meets the state standards.

6-ES Project Atmosphere Lessons for the Science
General – Earth Science
This session will outline the Project ATMOSPHERE program

Friday, February 16 – Share-A-Thons (30+ teachers sharing lessons)

Middle School Share-A-Thon – 9:00 am

Pre-Service Teachers Share-A-Thon – 1:00 pm

Friday, February 16 – BREAKOUT SESSIONS

1-ES Prospecting for Mineral Ore (commercial)
HS – Earth Science
How do geologists look for mineral ore? Participants search for a layer

1-B Central Dogman Medicine, & Crispr-Cas9
HS – Life Science
Teach the Central Dogma, genetic medicinek ahd FRIPR-Cas9 with free materials from HHH Biointeractive. Resource include an online interactive , animation, and an activity

3-B Holiday Themed Activities for Your Biology Students
MS/HS – Life Science
This session provides tried and true life science related ideas and hands-on activities with a holiday twist in order to make any lesson or club meeting exciting and engaging.

7-B Pakistan: A Model for Examining Issues, Concerns, & Future Prospects for Public Health in the Third World
HS/College – Life Science/Interdisciplinary

Emerging Infectious disease and public health threatens secruity in the under-developed world. Researchers use Pakistan as a model to assist officials to plan for appropriate health care.

13-B k NIT ing your Curriculum
MS/HS/General – Life Science/Interdisciplinary
Teachers learn to create integrated lessons that engage your students with technology and meet the standards. Enjoy practical lessons that you can take home.

10-B 1 Class Period + 1 Model System + 2 Cellular Processes = Success 4 Students! (Commercial)
MS/HS/College – Life Science
Learn how encapsulated algae can be used to investigate photosynthesis and cellular respiration within one period using one CO2 colorimetric tracking solution. Bring inquiry alive!

12-B Bio Talk Pit
HS – Life Science

14-B Evolution for the Life Science Classroom
MS/HS – Life Science
The Teacher Institute for Evolutionary Science helpls teachers teach evolution with confidence. Participants will receive a free unit of materials, including a presentation and exam.

16-B Activities Exploring the Science of Life
MS/HS – Life Science
Join us for activities, lesson plans, program opportunities, references and resources that can work for your classroom to teach life sciences! Hosted by Purdue University Staff.

1-EN Man vs. Wild: Lessons on the Earth and Human Impacts
MS/HS – Environmental/Life Science
Engage in thought-provoking, multi-disciplinary activites to trace human populations changes and impacts on the earth and ecosystems over the past two centuries

2-EN Biomes and Invasive Species (Commercial)
HS – Environmental/Life science
Explore Biomes and Invasive species: Participants match organism cards to corresponding climate/biome cards then use literacy strategies to use in your classroom

6-C Teaching Strategies in the High School Physical Science Classroom

HS/College – Chemistry/STEM
A preliminary investigation on bridging high school chemistry to university level chemistry.

8-C Teaching Strategies in the High School Physical Science Classroom
HS – Chemistry
Teaching Approaches and technologies used to show how science is applied to technology and societal applications in a series of high school science classes.

9-C Flipping Science Conversation Pit
HS - Chemistry
This session will be an open discussion regarding the flippiong of the science classroom. All participants are encouraged to provide and answer questions.

10-C Mental Math for AP Chemistry
HS – Chemistry
Strategies for surviving the multiple section of the AP Chemistry exam without a calculator.

3-SE Does my Classroom Test Prepare my Students for ISTEP+?
Ele, MS, HS – Science education
Learn the difference between cognitive complexity and difficulty. You will also write and score open-ended items similar to what appears on the state assessment.

5-SE Engineering and Design Process within the SEPS
MS – Science Education
Participants will examine integration of the Engineering and Design Process within the Science and Engineering Process Standards (SEPS) in the science content.

6-SE Strategies for Motivating Students in an Assessment-Based Classroom
General – Science Education
This session will be a showcase of using an incentivized classroom management system with class badges and Class Dojo to recognize "daily" and "enrichment" work that is not always given a grade in the grade book.

1-PS Light and Sound
Ele – Physical Science
Teach 1st graders about light and sound using exploration and invention activities keyed to the new state standards. Door prize is the BBS kit!

2-PS Push, Pull, Go

Ele – Physical Science

Teach Kindergartners about motion and force using exploration and invention activities keyed to the new state standards. Door prize is the BBS kit!

3-PS Effect of High School Physics/ICP on Students' Conceptual Knowledge

HS.College – Physical Science

Beginning of semester pretests given to students in introductory physics classes at Ball State University reveal the effects of high school physics and/or ICP

6-PS Before the Puck Drops - Teaching Science to Students through Hockey (Commercial)

ELe, MS – Physical Science

Attendees will leverage engaging blended learning resources to enhance student interest in science through real-life scenarios in the exciting,

8-PS Help Jose--He's Stuck in a Tree!

Ele, MS, College – Physical

Participants will engage in a problem-based scenario by designing, constructing, and testing a prototype. Come learn how to teach engineering design with Newton's Laws

9-PS STEM Takes Flight

Ele, MS, HS, General – Physical Science/STEM

Join Science Olympiad National Flight Event Coordinator and veteran coaches for a hands-on exploration of activities related to aerodynamics, flight, and STEM.

3-MS Inertia Around the Curve (Commercial)

MS – Physical Science

Misconceptions about inertia? In this activity, participants investigate the forces needed to change the motion of moving spheres of different mass along a circular track.

9-MS Model-Eliciting Activities (MEAs)

Ele/MS – STEM/Interdisciplinary

Learn how students use interdisciplinary skills to develop a mathematical model to figure out the height of a person who made footprints in a garden.

10-MS Science Olympiad: A STEM One-Stop Shop
MS/HS -Interdisciplinary

11-MS Bringing Science Research Into Your Classroom
MS/HS – Interdisciplinary
Undergraduates who are currently working in science research labs at IUB will share their research and offer ideas for how to bring that research into your MS/HS classroom.

12-MS It's a Big Dill: The Science of Pickles
MS/HS – Interdisciplinary
Food science is an important interdisciplinary topic and can provide fun labs for your students to do to get them interested with what they eat.

13-MS Murder, Mayhem, and Forensic Science
MS – Interdisciplinary
Staging a real world crime scene in which the teachers are the suspects and the students solve a murder using fingerprints, handwriting, and chromatography.

6-EL STEM Stories- Integrated Literacy and STEM Experiences
Pre-K/Ele – Interdisciplinary
Refresh your classroom library with a STEM twist. Explore a wide variety of integrated children's literature and science activities through "STEM Stories" for young learners.

7-EL Science for Little Kids
Pre-K/Ele – STEM/Science education
In this session, participants will learn classroom tested ideas for integrating STEM concepts into their early childhood classrooms.

9-EL STEM All Day! Extending Quality STEM Experiences into the After School World!
Ele – STEM
Quality after school STEM programming provides an excellent opportunity to engage and excite students early in their academic journeys while reinforcing the school day learning.

10-EL Science Centered Language Development that Promotes K-5 Scientific Understanding (Commercial)
Elem – STEM/Science education
Explore how active science investigations provide rich contexts to develop thinking and communication skills while best practices in language arts instruction support science learning.

11-EL Strategies for Science Success for Students with Learning Differences

Ele/MS – Interdisciplinary

Teachers from a school for students with learning differences will share techniques that help students with a variety of learning issues find success in all aspects of science.

23-EL Picture-Perfect Science: Using Children's Literature to Inspire STEM Learning

PreK-5 – STEM/Interdisciplinary

Learn how to use scientific inquiry, the 5Es instructional model, and reading comprehension strategies to teach STEM.

4-ST STEM Integration - Bringing the Pieces Together

MS/HS – STEM

Use the 6-Star Science framework learn how to fully integrate the different aspects of STEM into your current "cookbook labs"

7-ST NASA STEM Team Building Strategies

Ele/MS/HS – STEM/Interdisciplinary

NASA STEM team building strategies engage students in problem solving, encouraging them to work together while inspiring them to pursue a career in STEM

8-ST NASA STEAM Impact of Discovery

Ele/MS/HS – STEM/Interdisciplinary

NASA Mission Makers STEAM resources explore the impact of discovery. Participants will design a shoebox rover using 6 simple machines.

10-ST STEM Lessons: Middle School Math and Science Integration

MS/STEM

Math and Science curriculum is integrated to create engaging and tested STEM lessons as part of a MISTE grant; plans and materials will be available.

11-ST STEM is About More than Rockets and Robots (Commercial)

Ele/MS/HS – STEM/Interdisciplinary

Complex science into your classroom? How to use all this technology? Can we make engineering engaging? All connects with math! Engage your students with GIZMOS!

13-ST We Can Do Science using iClickers or Plickers, BSCS 5E Leanring Model

General – STEM

Using the 5E Learning Model and Inquiry with iClickers and Plicker for formative assessments by pre-service teachers and underrepresented students

14-ST K-2 Picture STEM
Ele – STEM
Instructional units for K-2 classrooms that integrate STEM with reading so children can make connections with the "real world"

15-ST Three Chromosome Teaching Activities
HS – Life Science
Guided inquiry activities for teaching about chromsomes: karyotyping fictious extraterrestrials, comparing human and chimp chromosomes, and more

16-ST Using UV Beads to Teach Engineering Design
Ele/MS – STEM/Earth Science
Engineering Design-How do I teach it? Come learn tools you will need to introduce engineering design to your students

20-ST Argumentation: Discussing Phenomenon and Increasing Student Voice
Ele/MS/HS – STEM/Interdisciplinary
Modeling consensus building through argumentation around intriguing science phenomenon

21-ST Using soil to teach basic sciences
MS/HS – STEM/Earth Science
Hands on demonstrations and experiments will be used to teach basic sciences that effect our everyday lives.

22-ST Let's Play! Using Games in Science for Skill-building and Motivation
Ele/MS/HS/College – STEM/Interdisciplinary
Join us for this fun, hands-on workshop to learn how games can engage all students in the science classroom while teaching essential 21st century skills.

24-ST Conceptual Modeling in the K-8 Classroom (Commercial)
Ele/MS – STEM/Interdisciplinary
Explore how hands-on lessons provide context for students to deepen conceptual understanding by developing, using and revising models.

25-ST Starting FIRST Robotics in your School
General – STEM

An overview of the FIRST Robotics Program that focuses on getting kids engaged with STEM/STEAM while teaching them the 21st century skills of tomorrow

26-ST Geo Inquiry: Using Geospatial Technologies in the Science Classroom

27-ST 3 Steps to successfully Implement STEM in Your Classroom
STEM
Discover why STEM education is growing like wildfire, the tools and materials you will need to support STEM, and how to successfully apply them into your classrooms.

2-IN Playing with Fire, Energy Misconceptions
El/MS/HS – Interdisciplinary
By sharing ideas about fire, we will uncover and discuss a misconception that is common among students, teachers, web-pages, and even college biology textbooks.

3-IN Using Science Fiction to Reach Science and Science Literacy
General – Interdisciplinary
Science Fiction is read not only for enjoyment, but becuase it digs into scientific concepts with imagination, creativity, and a thorough appreciation of consequences.

5-IN Peer Review in Science: Building Student Engagement and Success
HS – Interdisciplinary
Peer review in AP science classrooms increases student engagment and success. The peer review instructional strategy will be explored in a hands-on training session.

6-IN Science Fair 101- How to Facilitate Student Research
Ele/MS/HS – Interdisciplinary
Turn long-term scientific experiments into science and engineering fair projects with Regional Fair Director.

7-IN The Next Frontier in your Career – NBCT
Ele/MS/HS – Interdisciplinary
An overview of the steps, timeline, and, costs involved in becoming a National Board Certified Teacher.

9-IN Integrating Chromebooks with Vernier Technology (Commercial)
Ele/MS – Interdisciplinary
Learn how to use chromebooks with Vernier sensors to investigate bio. chem and physcis concepts.

10-IN CK-12 - Digital Resources for your Science Class
Ele/MS/HS – Interdisciplinary
Explore CK-12 online text for science topics at all grade levels, customizable for your classes.

11-IN Making Service Learning a Reality
Ele/MS/HS – Interdisciplinary
Realistic tips, tricks, and curriculum that help make service learning accessible in any classroom

13-IN Classroom Strategies for Student Success
HS – Interdisciplinary
This session will highlight simple strategies to use in the classroom to maintain high expectations while increasing student engagement.

15-IN Biomes and Invasive Species (Commercial)
HS – Interdisciplinary Explore Biomes and Invasive Species!
Participants match organism cards to corresponding climate/biome cards, then use Literacy strategies to consider the impact of invasive species.

16-IN Teaching and Learning with Monarch Butterflies
General – Interdisciplinary
Learn about the two-day workshop to teach/learn skills in literacy, math, science, geography, technology, Spanish, the arts, and social studies through the story of monarch butterflies.

19-IN PBL and Science
MS/HS – Interdisciplinary

20-In Inspiring Future Leaders in Energy Sciences and Engineering
MS/HS – STEM/Interdisciplinary
A free week-long immersive program (June 17-23, 2018) on STEM-related energy topics for high-achieving high school juniors and seniors, and secondary science teachers: http://purdue.edu/energyacademy.

21-In Bats of the World
General – Interdisciplinary

Discover the roles bats play in global ecosystems. Meet live bats and understand how environmental changes impact bat populations and learn how to protect them.

2-In Demos with a Message

General – Interdisciplinary

Learn how common demos are used in a drug-free message science show. Plenty of chemistry puns as well. Want to learn and share from others.

14-IN Improving Student's Science Writing Skills

HS – Interdisciplinary

Writing in science is a skill that students can learn. This session will focus on strategies to improve student's writing skills in science

25-ST Accessible Analysis: Camera Colorimetry

HS/College – STEM/Interdisciplinary

Learn how to integrate technology with science in this hands-on lesson where teachers can use cameras and Google Sheets to perform a basic colorimetric analysis.