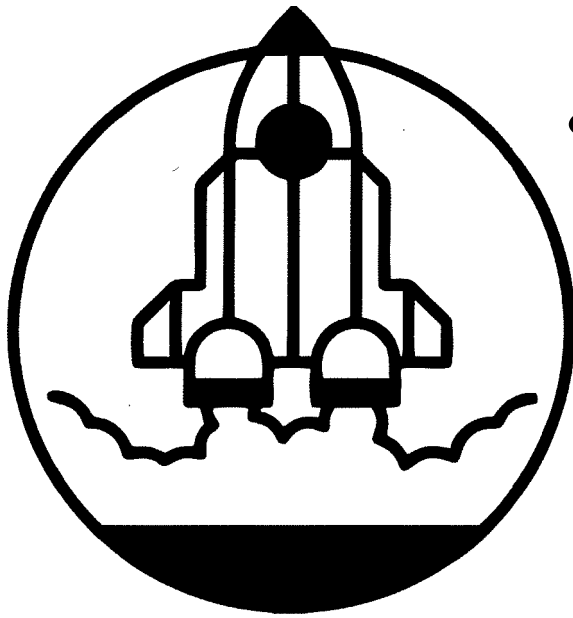


A STEM-based Approach
KATS KAMP 1.5
2019

A Professional Learning Conference of Science Education
Kansas Association of Teachers of Science
A State Chapter of the National Science Teachers Association



Science
Technology
Engineering
Math

April 27, 2019

Kansas Cosmosphere
Hutchinson, KS

AmplifyScience

KATS would like to thank
Amplify Science
for sponsoring breakfast



Make sure to stop by their
vendor table and check out
what they have to offer!

KATS Kamp 2019 Personal Planner

	Saturday April 27	Sessions you plan to attend:
Break Out Session One	8:30-9:20	
Break Out Session Two	11:00-11:50	
Break Out Session Three	1:00-1:50	
Break Out Session Four	2:00-2:50	
Break Out Session Five	4:00-4:50	

Notes:

President's Welcome

Welcome to KATS Kamp 1.5, a STEM-based approach to learning! This year the association is using a one-day format at a whole new location – the Kansas Cosmosphere. The premiere international science education center and space museum is a perfect place for promoting a bridge between Science, Technology, Engineering, and Mathematics on the 50th anniversary of humanity's first step on a foreign world with the Apollo 11 moon mission.

Tim Elsen, KATS president of 18-19
Middle School Science teacher in Wichita, KS



IMPORTANT INFORMATION

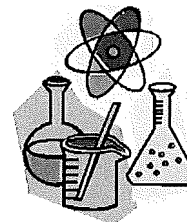
- **PRESENTERS:** Please share your handouts and materials electronically on the KATS website. Email all documents to secretary@kats.org with a heading of "KATS Kamp Handout." Please let those attending your session know you will be sharing them on the website as well. Submitted items will be posted within a week of the conference.
- **KANSAS CITIZENS FOR SCIENCE AWARD WINNERS:** Please attend one of the following sessions to fulfill the requirements of your award.

Traci Richardson: *Evolution for Middle School Educators*

Stephanie Alderman-Oler: *Why Don't Antibiotics Work Like They Used To?*

Lizette Burks: *Checking on Student Understanding with NGSS*

SPECIAL EVENTS



Vendors/Exhibitors

7:30 am - 6:00 pm

Lobby

We encourage all participants to browse through the Vendor/Exhibit area in the lobby. KATS would like to say "Thanks" to all of our special guests!

Mohling Silent Auction

7:30 am - 4:00 pm

Lobby

The Wendall Mohling Foundation is instrumental in providing award funding for exceptional science teachers to attend NSTA National Conferences. They are also strong supporters of STEM Education. Take a few moments to browse through their auction items and place your bid. Winners will be announced at 5:00 pm.

KESTA Rock Raffle

7:30 am - 4:00 pm

Lobby

The Kansas Earth Science Teachers Association would also like to welcome you to their raffle. You can purchase raffle tickets at their table. The winners will be announced at 5:00 pm.

KATS Box

7:30 am - 6:00 pm

Observation Deck

Feel free to set up your display in the Observation Deck area to share with others. We welcome all kinds of projects, activities, teaching ideas, etc. Make sure to pick up your display before 6:00 pm. All conference attendees are welcome to peruse these tables of ideas.

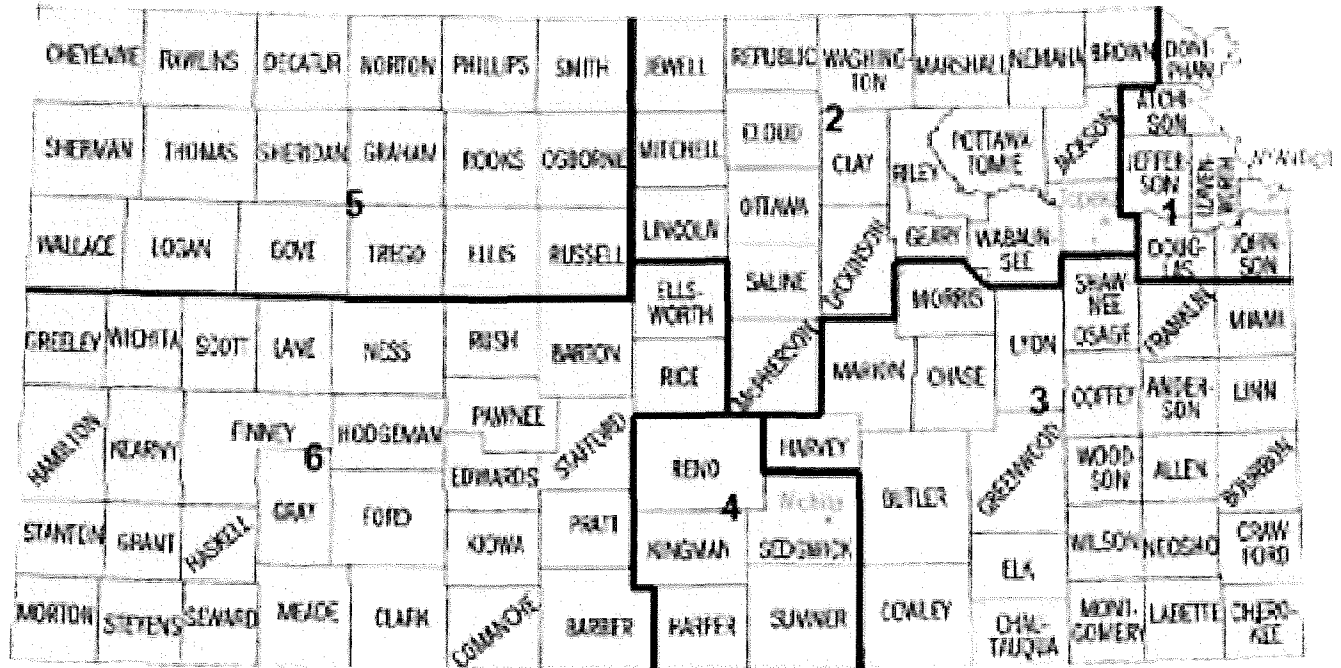
KATS Kamp 2019 General Schedule

Saturday April 27

Exhibitors open during the day throughout the Lobby.

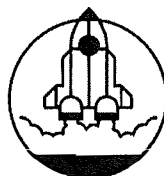
TIME	EVENT	LOCATION
7:30 am - 6:00 pm	Second Annual Idea Exchange: THINKING OUTSIDE THE KATS BOX	Observation Deck
7:30 am	*Registration Opens *Mohling Auction Opens *KESTA Raffle Opens *KATS Box Display setup	<u>Lobby:</u> Registration Mohling Auction KESSA Raffle <u>Observation Deck:</u> KATS Box
7:45 – 8:30	Breakfast Provided By Amplify Science	Discovery
8:30 – 9:20	Break Out Session One	
9:30-10:30	Welcome Keynote Speaker Awards	Discovery
10:30-11:00	Vendor/Exhibitor Break	Lobby
11:00-11:50	Break Out Session Two	
Noon-12:50	Lunch & Exhibit Time Boxed Lunch Provided by Cosmosphere	Discovery
1:00-1:50	Break Out Session Three	
2:00-2:50	Break Out Session Four	
3:00-3:50	Regional Meetings & Vendor/Exhibit Time	All attendees please join your region for valuable information! <i>See map on next page for your region</i>
4:00-4:50	Break Out Session Five	
5:00-6:00 *Please remember to pick up your KATS Box Display	*Mohling Auction Winners Announced *KESTA Raffle Winners Announced *Last Visits to Vendors	Lobby
6:00-7:00	Dinner Provided by Pizza Ranch	Discovery
7:00-8:30	Free Planetarium Show	Planetarium
8:30	Social Networking Opportunity	<i>The Rusty Needle</i> 1808 North Plum Street

Regional Meetings

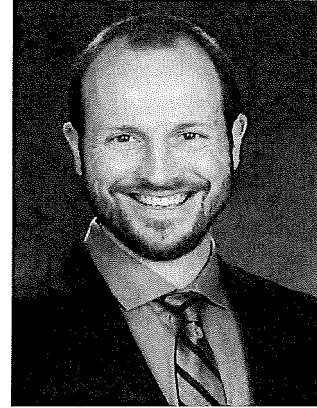


All conference attendees are encouraged to join your region for valuable KATS information.

Region	Room
1	Banquet
2	Outside Endeavor
3	Endeavor
4	Discovery
5	Rotunda
6	Atlantis



Science
Technology
Engineering
Math

Keynote Speaker: Matt Krehbiel

Matt Krehbiel joined *Achieve* in October 2015 as Associate Director, Science. In August 2017 he was promoted to Director. Matt has a variety of responsibilities within the science team to further *Achieve's* efforts to provide support to states and districts in implementation of the Next Generation Science Standards. He is specifically responsible for supporting and managing EQUIP for science and the PEEC-alignment tool.

Matt began his career in science education as a high school science teacher in Kansas, where he taught a wide range of high school science courses over ten years. His work in the classroom was recognized in 2010 with the Award for Excellence in Conservation and Environmental Education from the Kansas Association for Environmental Education. Later that year, Matt joined the Kansas State Department of Education as the State Science Supervisor. In this role, Matt led Kansas' participation as a lead state in developing the Next Generation Science Standards and was the lead author of Appendix K: Model Course Mapping in Middle School and High School. He also coordinated the state-wide effort to use the implementation of these standards as an opportunity to advance science education for all students. For his efforts to advance science education in Kansas, Matt was awarded the Kansas Association for Teachers of Science Outstanding Contributions to Science Education Award in 2013 and was selected by Bethel College for their Young Alumnus Award in 2015.

In addition to his classroom and state-level work, Matt has also worked at the national level. While working at the Kansas State Department of Education, Matt served on the Board and later as President of the Council of State Science Supervisors. This organization serves to coordinate and support efforts of the state science supervisors of all states as they work to advance science education. Matt is also a member of the Board on Science Education for the National Research Council and, in that role, was on the committee that wrote *Guide to Implementing the Next Generation Science Standards*.

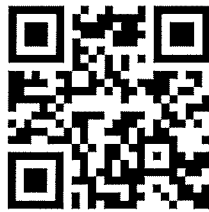
Matt earned his B.A. in biology and natural sciences and his secondary teacher certification in general science, biology, and physics from Bethel College. He earned his M.S. in curriculum and instruction with a focus in science education from Kansas State University.

SOCIAL MEDIA

Please take photos and feel free to post! Stop by the Photo Booth area in the lobby.

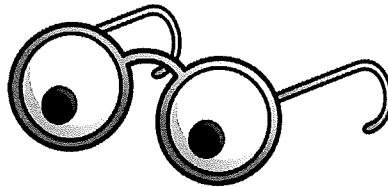
- Follow us on Facebook: 
Facebook.com/KansasScienceTeachers
- Instagram: kats.org1967 
- Twitter: #KATS19 and @katsorg 

Conference Survey



Please take a moment to provide feedback about your conference experience!

We look forward to seeing you at
KATS Kamp 2020



Fort Hays State University
April 24-26, 2020

Breakout Session Schedule for Saturday

8:30-9:20 AM Break Out Session One

Rotunda

Wendell G. Mohling Foundation Teacher Scholarship Award

Main Presenter: Carol Mohling

E-Mail: cmohling@aol.com

Copresenters: Amy Hammett and Jessica Simmons

Learn about the history of the award, discover professional development opportunities which are available to the winner, and hear how the award impacted this year's recipients.

Audience: K-12; Primary/Intermediate Elementary;
Middle/Junior – Senior High

Session Type: Discussion

Above Mission Control

How Does Music Affect Work?

Main Presenter: Matthew Baden

E-Mail: mtbaden@gmail.com

Copresenters:

Students enjoy listening to music, but the problem is we are worried music will distract. The point of this research is to see how it really affects a student's efficiency in school.

Audience: Middle-High School

Session Type: Poster

Endeavor

Sorting Toys and Learning the Periodic Table

Main Presenter: Danny Bergman

E-Mail: Daniel.bergman@wichita.edu

Copresenters:

Introduce the Periodic Table with a hands-on activity. By sorting simple toys and household objects, students explore different ways for classifying matter, along with the work of Mendeleev and others.

Audience: Grades 3-12

Session Type: Hands-On

Outside Endeavor

Take A Tour of National Geographic's Free Online and In-Person Resources

Main Presenter: Elain Larson

E-Mail: elarson@ngs.org

Copresenters:

Discover the wide range of teacher resources and opportunities available free of charge from National Geographic – from classroom resources to teacher PD. Bring your laptops!

Audience: Grade 3 - College

Session Type: Hands-On

Atlantis

Using Food Safety and Nutrition to Teach Science

Main Presenter: Maricar Harris

E-Mail: mharris@wscsks.com

Copresenters:

Hands-on experience using a standards-based curriculum developed by the FDA that explores the science behind our nation's food supply. Participants will receive materials to easily implement activities in their classrooms.

Audience: Middle-High School

Session Type: Hands-On

Discovery

Earth Partnership for Schools: Planting EE Roots and Seeds for the Future	
Main Presenter: Brad Guhr Copresenters:	E-Mail: brad.guhr@hesston.edu
The Kansas Earth Partnership for Schools Program trains teachers to restore prairie habitat gardens on school grounds with their students while learning about Kansas natural history.	
Audience: General Audience	Session Type: Hands-On

Banquet

Computer Science Standards	
Main Presenter: Stephen King Copresenters:	E-Mail: sking@ksde.org
This presentation will cover the development and contents of the new P-12 Model Standards for Computer Science for Kansas. Included in the session will be a discussion and workshop for integration of computer science concepts into existing courses.	
Audience: General Audience	Session Type: Short Course

11:00-11:50 AM Break Out Session Two

Rotunda

Phenomenal Phenomena – Using Phenomenon to Drive and Guide Instruction	
Main Presenter: Christie Purdon/Elizabeth Tackett Copresenters:	E-Mail: ccpurdon@gmail.com etackett@usd259.net
Participants will learn about types of phenomena, how to use phenomena in designing NGSS-aligned lessons and will explore resources for finding and using phenomena.	
Audience: General Audience	Session Type: Discussion

Above Mission Control

Incorporating all 3 Dimensions into Chemistry Instruction and Assessment	
Main Presenter: Sarah Evans Copresenters:	E-Mail: sarah.walenta.evans@gmail.com
A talk about how to shift traditional instruction and topics to be more NGSS aligned incorporating all 3 dimensions including information from NSTA National Conference.	
Audience: High School	Session Type: Poster

Endeavor

STEM-ulating Activities on Human Ecology	
Main Presenter: Sarah Powell Copresenters:	E-Mail: srblevins@hotmail.com
Discover innovative ways to teach middle-schoolers about human-environmental interactions, while also building STEM skills through problem solving, mathematical modeling, interactive technology and more!	
Audience: Middle School	Session Type: Hands-On

Outside Endeavor

Becoming a National Geographic Certified Educator	
Main Presenter: Elaine Larson Copresenters:	E-Mail: elarson@ngs.org
Learn about National Geographic's free Educator Certification PD program. Gain access to an online educator community and a wide range of free online resources at National Geographic.	
Audience: PreK-High School	Session Type: Hands-On

Atlantis

A Dozen Demos	
Main Presenter: Danny Bergman Copresenters: WSU pre-service teachers	E-Mail: Daniel.bergman@wichita.edu
Experience several science demonstrations and discrepant events you can use with your students! Materials are easy and accessible, and safety and standards are addressed. Handouts provided!	
Audience: Middle-High School	Session Type: Hands-On

Discovery

Review Games: Fun With Chemistry	
Main Presenter: Maricar Harris Copresenters:	E-Mail: mharris@wcsks.com
Reinforce learning by playing games to confirm understanding of concepts. See various examples of learning games I use in my classroom and even be a participant and play a few!	
Audience: Middle-High School	Session Type: Hands-On & Demonstration

Banquet

AR & VR in the Science Classroom	
Main Presenter: Soon Lee Copresenters:	E-Mail: soonchun.lee@wichita.edu
Participants will be introduced to and practice various STEM educational/instructional apps including Google Expeditions, SolAR, Hologo, Cospaces, and more. Use with or without VR viewers to teach science in your classroom.	
Audience: Pre-K – High School	Session Type: Hands-On



1:00-1:50 PM Break Out Session Three

Rotunda

Equity in Science Education	
Main Presenter: Meg Richard & Betsy Lawrence Copresenters:	E-Mail: mjrichard@olatheschools.org Betsylawrence82@gmail.com
What is equity in science education? What does this look like in your science classroom? What value does this have for my students? All these questions and more will be addressed through this session with insight from this year's national NSTA conference.	
Audience: General Audience	Session Type: Hands-On

Above Mission Control

Color Your Classroom	
Main Presenter: Caitlyn Gregory Copresenters:	E-Mail: caitgreg5912@yahoo.com
Studies have shown that color has a huge impact on our learning abilities. So, should we be using more color in our classroom?	
Audience: General Audience	Session Type: Contributed Paper

Endeavor

Engaging Your Students by Engaging Their Senses

Main Presenter: Anna Dillard

E-Mail: aek360@gmail.com

Copresenters:

Participate in a sensory engaging lesson and learn how it affects student mental engagement.

Audience: Middle-School

Session Type: Hands-On

Outside Endeavor

OpenSciEd: Supporting Teachers with Free, High-Quality Instructional Materials

Main Presenter: Whitney Smith

E-Mail: wnsmith@gmail.com

Copresenters:

Participants will experience part of an OpenSciEd unit, explore the insctructional model and walk away with access to additional OpenSciEd units.

Audience: Middle School

Session Type: Hands-On

Atlantis

H2Know

Main Presenter: Melissa Bigge

E-Mail: mbigge@nutrientsforlife.org

Copresenters:

H2Know is a new digital and interactive case study developed by Nutrients for Life. Learn more about the case study, the science behind algae bloom, watershed dynamics, and agricultural management practices.

Audience: Middle-High School

Session Type: Demonstration

Discovery

Animating with Google Suite

Main Presenter: Fred Snyder

E-Mail: csnyder@usd259.net

Copresenters: Tim Elsen

telsen@use259.net

By using Google's suite of apps, your students can present their understanding of content in a non-threatening atmosphere.

Audience: General Audience

Session Type: Hands-On

Banquet

Corn Breakout: Using Breakout Boxes in the Classroom

Main Presenter: Joshua Runyan

E-Mail: joshuarunyan@usd475.org

Copresenters: Shane Fairchild

shanefairchild@usd475.org

Participants will be using the breakout boxes to learn about the history of corn and will "unlock" new knowledge about how the Kansas Corn Commission is investing in teachers.

Audience: Grades 3-12

Session Type: Hands-On



2:00-2:50 PM Break Out Session Four

Rotunda

Paper Tests Versus Online Tests

Main Presenter: Jennifer Berry

E-Mail: jennysensei42@gmail.com

Copresenters:

I have researched traditional testing and online testing, and several methods to administer both. Students tend to be anxious or bored by the time tests come around, so my goal is to make test a bit less arduous and more interactive. Through the school year I have given many different styles of tests to compare the methods. I will discuss my findings and my students' opinions on each testing method.

Audience: High School

Session Type: Contributed Paper

Endeavor

Kansas Corn: Decoding DNA-Modeling Protein Synthesis

Main Presenter: Shelly Robinson

E-Mail: srobinson@usd434.us

Copresenters:

In this activity, participants will model protein synthesis. This simple, yet straight forward method of demonstrating transcription, translation, elongation and termination better equips students to grasp this concept.

Audience: Middle-High School

Session Type: Hands-On

Outside Endeavor

KWEDC and MIT app inventor

Main Presenter: Mandy Kern

E-Mail: amkern2@fhsu.edu

Copresenters: Joseph Kern

agacsresearch@gmail.com

Learn about the free environmental education programming offered at the Kansas Wetlands Education Center and see examples of how to incorporate computer science curriculum into science and environmental application.

Audience: Middle School-High School-College

Session Type: Hands-On

Atlantis

After-School STEM Programs

Main Presenter: Breanna Meier

E-Mail: bdmeier@mail.fhsu.edu

Copresenters: Chantal Solorzano, Alexis Meinert, Diana Sabados

cmsolorzano@mail.fhsu.edu

admeinert@mail.fhsu.edu

drsabados@mail.fhsu.edu

Science and Math education majors at FHSU teach science and math to elementary students in their After-School Program. Come hear what we do and how we integrate STEM for students.

Audience: PreK-5th grade

Session Type: Hands-On

Discovery

Kansas Strong: What is Kansas Strong?

Main Presenter: Candace R. Davis

E-Mail: candace.davis@kansasstrong.com

Copresenters: Marilyn McComber, Warren Martin

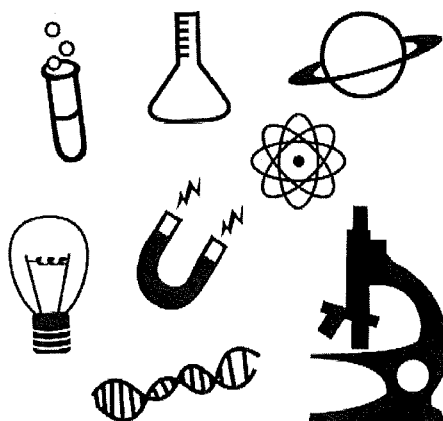
Kansas Strong is here for teachers, students and others by educating them on the opportunities provided on the promotion of the oil and natural gas industries provided by its producers.

Audience: General Audience

Session Type: Demonstration

Banquet

Evolution for Middle School Educators	
Main Presenter: Traci Richardson Copresenters: Bertha Vazquez	E-Mail: trichardson@stillwaterschools.com bvazquez@centerforinquiry.org
Good teachers can teach anything well with high-quality resources. The goal of the Teacher Institute for Evolutionary Science (TIES) is to help our fellow teachers with free, up-to-date evolutionary content, labs, videos and much more.	
Audience: Middle – High School	Session Type: Hands-On



4:00-4:50 PM Break Out Session FIVE

Rotunda

Interactive Graphs	
Main Presenter: Heather Kincaid Copresenters:	E-Mail: hkincaid@usd259.net
Learn how to make and use an interactive graph that can be applied to any science or math class to make graphing a fun, total participation activity!	
Audience: Middle- High School	Session Type: Hands-On

Endeavor

Starting and Sustaining Phenomena-Based Storylines: Tools from NSTA St. Louis and Beyond	
Main Presenter: Robert Hamilton Copresenters:	E-Mail: rhamilton@indyschools.com
Participants will receive materials, classroom strategies, and the latest ideas from NSTA St. Louis on the incorporation of phenomena and storylines into the classroom.	
Audience: High School	Session Type: Hands-On

Outside Endeavor

Checking on Student Understanding with NGSS	
Main Presenter: Lizette Burks Copresenters:	E-Mail: lburks@ksde.org
Three-dimensional science standards based on “A Framework for K-12 Science Education” raise several questions about how to monitor student progress toward those learning goals. What does it look like to ask students to demonstrate progress toward three-dimensional standards? What are the most important features of high-quality science classroom assessments? We will explore a suite of resources that include annotated examples of assessment tasks for elementary, middle, and high school.	
Audience: General Audience	Session Type: Hands-On

Atlantis

Place-Based Learning: Big Data & Computational Sense-Making Where It Makes Sense

Main Presenter: Amy Hammett

E-Mail: ahammett@usd266.com

Copresenters:

Field work, lab- work, and computational sense-making merge in this real-world, Kansas-based NextGen phenomenon in which students investigate harmful algal blooms (HABs) to protect and improve their own local drinking water.

Audience: Middle School-High-School-College

Session Type: Short Course

Discovery

Kansas Strong: K-12 Program and College Credit

Main Presenter: Candace R. Davis

E-Mail: candace.davis@kansasstrong.com

Copresenters: Warren Martin, Marilyn McComber

warren@kansasstrong.com

We will discuss and demonstrate what Kansas Strong has to offer K-12 teachers in the subject areas of science, math, etc. We will also demonstrate what the teachers receive from our workshops and how we can offer college credit.

Audience: General Audience

Session Type: Demonstration

Banquet

Why Don't Antibiotics Work Like They Used To?

Main Presenter: Stephanie Alderman-Oler

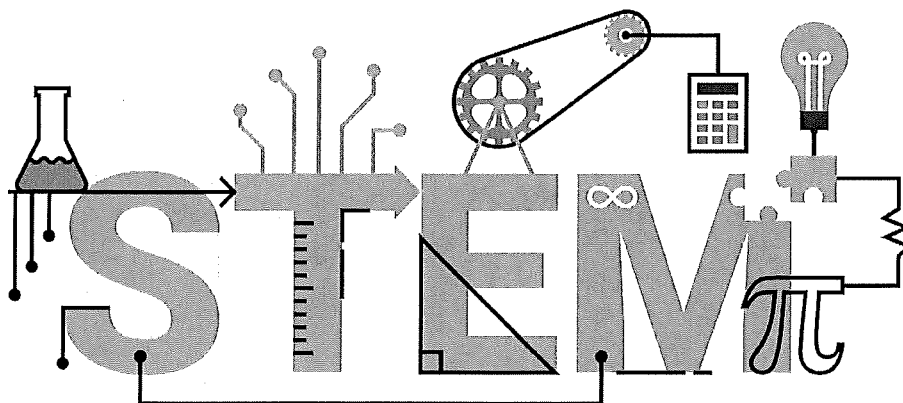
E-Mail: stephanie.alderman@kckps.org

Copresenters:

We will explore the anchoring phenomena from the natural selection unit from NextGenStorylines. We will see how the strategies in this curriculum build a culture of student-centered inquiry that is aligned to all three dimensions of NGSS.

Audience: Middle – High School

Session Type: Hands-On

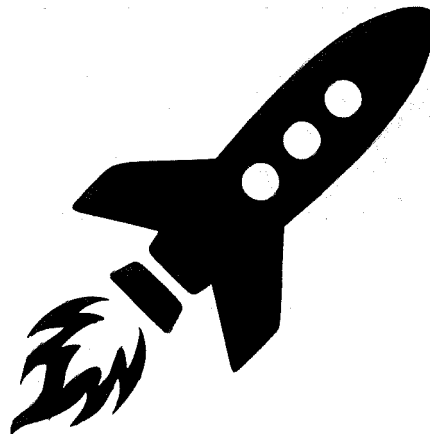


KATS would like to take this opportunity to thank



for hosting KATS Kamp 1.5

**We value their partnership in promoting
STEM education in Kansas!**



2019 KATS Officers

Executive Committee

President	Tim Elsen president@kats.org
President-Elect	Nancy Smith President-elect@kats.org
Vice President	Elizabeth Tackett Vice-president@kats.org
Past-President	Carol Bonham Past-president@kats.org
Secretary	Fred Snyder secretary@kats.org
Treasurer	Brian Nelson treasurer@kats.org

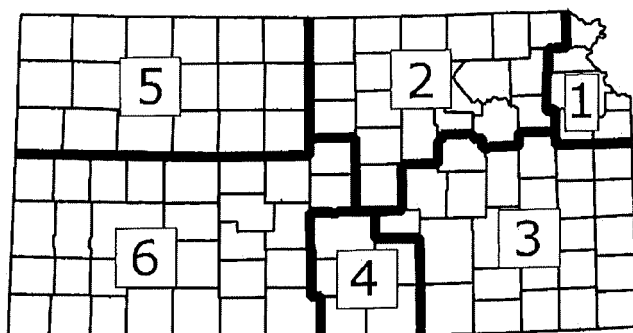
Committee Chairs & Appointees

Membership Chair	Lori Coles colesl@usd226.org
Kamp Registration Chair	Ericka Wright registration@kats.org
Newsletter Editor & Publisher	Samantha Lehr newsletter@kats.org
Webmaster	Randy Brull webmaster@kats.org

Liaisons

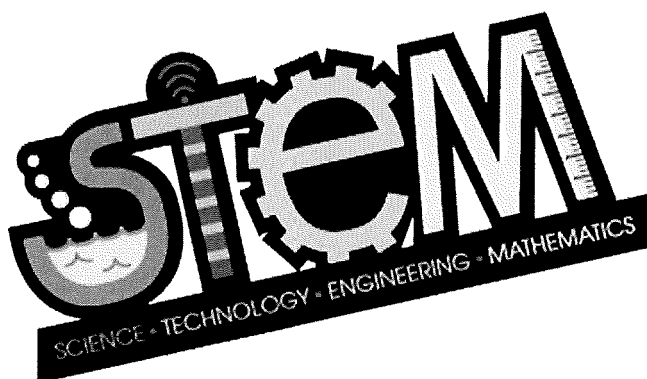
Kansas Department of Education	Dr. Lizette Burks lburks@ksde.org
NSTA District XI Director	Jodi Bahr jbahr@harvardcardinals.org
Informal Science Education	Chaille Blount Chaille.blount@exploration.org Exploration Place-Wichita
Kansas Science and Engineering Fair	Traci Messerly tracimesserly@icloud.net
Kansas Association for Conservation and Environmental Education	Laura Downey ldowney@kacee.org
Mohling Foundation	Carol Mohling Cmohling@aol.com

Regional Representatives



Reg.	Elementary	Secondary	College
1	Betsy Lawrence betsylawrence@smsd.org	Julie Bergkamp julie.bergkamp@leavenworthcatholicschools.org	Martha Nowak msnowak@ksu.edu
2	Laura Leis lleis@smokyvalley.org	Stacy Harris <u>stacyh@usd383.org</u>	Jacqueline Spears <u>idspears@ksu.edu</u>
3	Denise Cottenmyre cottenmyre@usd251.org	Jennifer Richmond richmondj@usd251.org	Scott Capes <u>scapes@cableone.net</u>
4	Ericka Wright regisration@kats.org	Chris Hutson <u>chutson@usd259.net</u>	Soon Chun Lee soonchun.lee@wichita.edu
5	vacant	Keri Maricle mariclek@tmpmarian.org	Dean Stramel dastramel@fhsu.edu
6	Taajnia Elliot elliottt@usd226.org	Wendy Calderwood calderwoodw@usd376.com	Connie Schaef schaefc@usd300ks.com

For more contact information on the officers in KATS visit the website at kats.org. You can also view the KATS Constitution and Bylaws under the "About KATS" tab on the main page.



Presidents of Kansas Association of Teachers of Science

<u>Term</u>	<u>Name</u>	<u>Term</u>	<u>Name</u>
1967-1968	Leonard Molotsky*	1993-1994	Rosemary McGuire
1968-1969	Twyla Sherman	1994-1995	Donna Bogner
1969-1970	Jan Holman	1995-1996	Captola Taylor Harris
1970-1971	George Ratzlaff	1996-1997	Gary Andersen
1971-1972	Glenn Clarkson	1997-1998	Terry Behrendt
1972-1973	David Knorr	1998-1999	Mary Robillard
1973-1974	Eugene Crawford	1999-2000	Barb Prater
1974-1975	Betty Amey	2000-2001	Alan King
1975-1976	DeWayne Backhus	2001-2002	Mary E. Butel
1976-1977	Ramona Anschutz	2002-2003	Earl Legleiter
1977-1978	Wendell Mohling *	2003-2004	Kay Neill
1978-1979	Neil Miller	2004-2005	Scott D. Capes
1979-1980	Leland Keller	2005-2006	David Pollock
1980-1981	Samuel W. Wine	2006-2007	Kenneth Thompson/ David Pollock
1981-1982	Dudley Fryman	2007-2008	Germaine Taggart
1982-1983	Jan Woerner	2008-2009	Emmett Wright
1983-1984	Maurice Witten*	2009-2010	Sharon McDonald
1984-1985	Walter Smith	2010-2011	Sharon McDonald
1985-1986	Lloyd Fugate	2011-2012	Paul Adams
1986-1987	Cathy Yeotis	2012-2013	Jim Ellis
1987-1988	Charlotte McDonald	2013-2014	Dennis Newell
1988-1989	Larry Enochs	2014-2015	Daniel Bergman
1989-1990	Carol Williamson	2015-2016	Brian Cole
1990-1991	Thomas Manney	2016-2017	Dixie Smith
1991-1992	Brad Williamson	2017-2018	Carol Bonham
1992-1993	Brad Williamson	2018-2019	Timothy Elsen



2019 Kansas Citizens for Science Scholarship

Awardees

Matthew Baden

Caitlyn Gregory

Anna Dillard

Christina Gizzarelli

Jennifer Berry

Lisa Pinkerton

Terry Blount



2019 Kansas Association for Teachers of Science Awards

Outstanding Contributions to Science Education in Kansas

KATS Outstanding Contributions to Science Education in Kansas- Dave (Kip) Chambers

Dave (Kip) Chambers has been a biology instructor at Pratt Community College for 16 years, teaching General Biology, Biology II and Environmental Science. Kip has been the Pratt Higher Education Association (PHEA) Instructor of the Year twice during his tenure. Recently, he was active in the revision of the biological sciences curriculum to reflect the KBOR core outcomes for post-secondary education. Selected to participate in the NOAA Teacher at Sea program in 2017, he took part in the research project that surveyed coastal pelagic species, off the Northwest Pacific coast.

Outstanding Science Teacher

Region I -- Betsy Lawrence

Betsy has been a science educator for 15 years, with Shawnee Mission School district. She is a finalist this year, for the Presidential Award for Excellence in math and science teaching. She is the 2018 winner of the Wendell G. Mohling Foundation Scholarship Award and participant in the Learn While Teach program. Her focus of the doctorate in curriculum and instruction she is pursuing, is equity in science education for the middle level.

Region II -- Melanie Falcon

Melanie works at Smoky Valley Middle School in Lindsborg. As the STEM Club sponsor she coaches the ECO-Meet and Science Olympiad teams. She is a Master Science Educator, having won the 2018 Presidential Innovation Award for Science Educators-Honorable Mention. She won the 2018 Kansas Association of Conservation and Environmental Education PreK-12 Grade. She was a member of the Kansas Science Educators for the KSDE Science Phenomena Bases Learning Fellow program. Melanie is running for a position on the KATS board for region II.

Region III -- Jennifer Richmond

Jennifer has been an educator for 19 years with the North Lyon County School District (currently at Northern Heights High School). Her areas include Biology, Anatomy and Physiology, Earth Science, Zoology and Forensic Science. Jennifer is currently serving as the treasurer for the Kansas Earth Science Teachers Association (KESTA) and is on the KATS board.

Region IV -- Nathan Bonham

Nathan been a science educator for 10 years. Nathan has been at USD 331 (Kingman/Norwich) teaching middle and high school science courses for the last eight years. His training includes Project Lead the Way in Human Body Systems, Magic of Electrons, Energy and Environment, Automation and Robotics and Design and Modeling. He was also the co-creator for the USD 331 Health Pathway. Nathan was the 2013 winner of the Wendell G. Mohling Foundation Scholarship Award.

Region VI -- Dettra Crawford

Currently in the chemistry and physics teacher at Hugoton High School, Dettra Crawford is in her 15th year of teaching. She has taught various science courses including Chemistry, Physics, Environmental Science, Biology, College A & P, College Biology, and College Physical Science. Some of the awards and recognitions she has received include Who's Who Among American Teachers, National Science Foundation VISM participant, Seward County Community College presenter for virtual learning, Educational Testing Systems National Advisory Committee for Physics 1 & 2, Educational Testing System question writer and reviewer, Hugoton High School Secondary Kansas teacher of the year, Kansas Association of Biology Teachers (KABT) Board member, and she was recently appointed to the Educational Testing Systems National Advisory Committee for Chemistry. She is a member of the American Association of Chemistry Teachers.

KATS Presidential Award

2018-2019 President Award – Tim Elsen

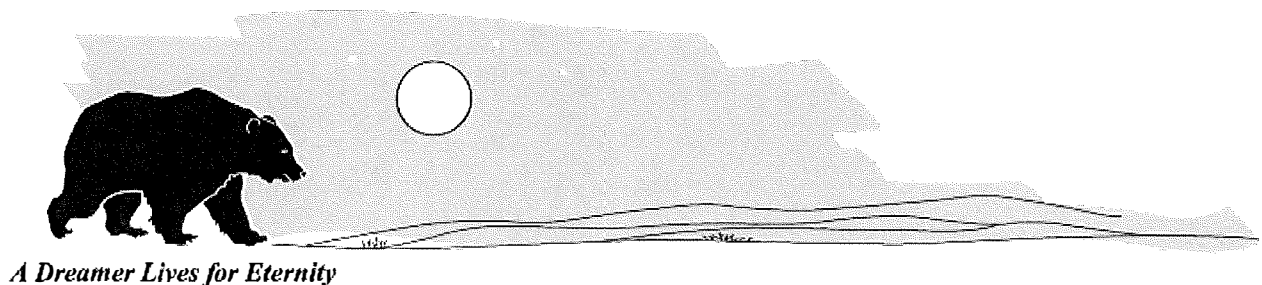
Tim Elsen has been a middle school science teacher at Wilbur Middle School in Wichita for 7 years. Tim is a Modeling Instruction training for AMTA. He has been a member of KATS for 8 years and has served on the KATS Board the last 5 years.



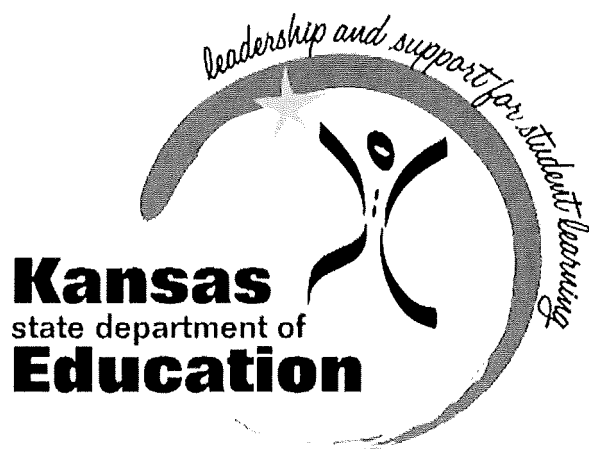
Wendell G. Mohling Foundation Award Winners

Amy Hammett
Biology & Earth-Space Science
Maize High School

Jessica Simmons
Biology
Wichita South High School



Thanks for continued support from the
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KATS Kamp 2019 Main Presenters List

Breanna Meier	Stephen King
Soon Lee	Danny Bergman
Joshua Runyan	Elaine Larson
Matthew Baden	Sarah Powell
Meg Richard	Betsy Lawrence
Whitney Smith	Heather Kincaid
Anna Dillard	Melissa Bigge
Maricar Harris	Traci Richardson
Shelly Robinson	Mandy Kern
Amy Hammett	Jennifer Berry
Robert Hamilton	Stephanie Alderman-Oler
Sarah Evans	Fred Snyder
Caitlyn Gregory	Lizette Burks
Candace Davis	Brad Guhr
Christie Purdon	Elizabeth Tackett
Carol Mohling	

KATS 1.5 EXHIBITORS AND SPONSORS 2019

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<p>Amplify</p> <p>http://www.amplify.com</p> 	

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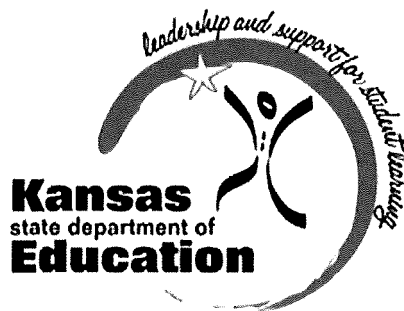
National Science Teachers Association

www.nsta.org



Kansas Department of Education

www.ksde.org/science



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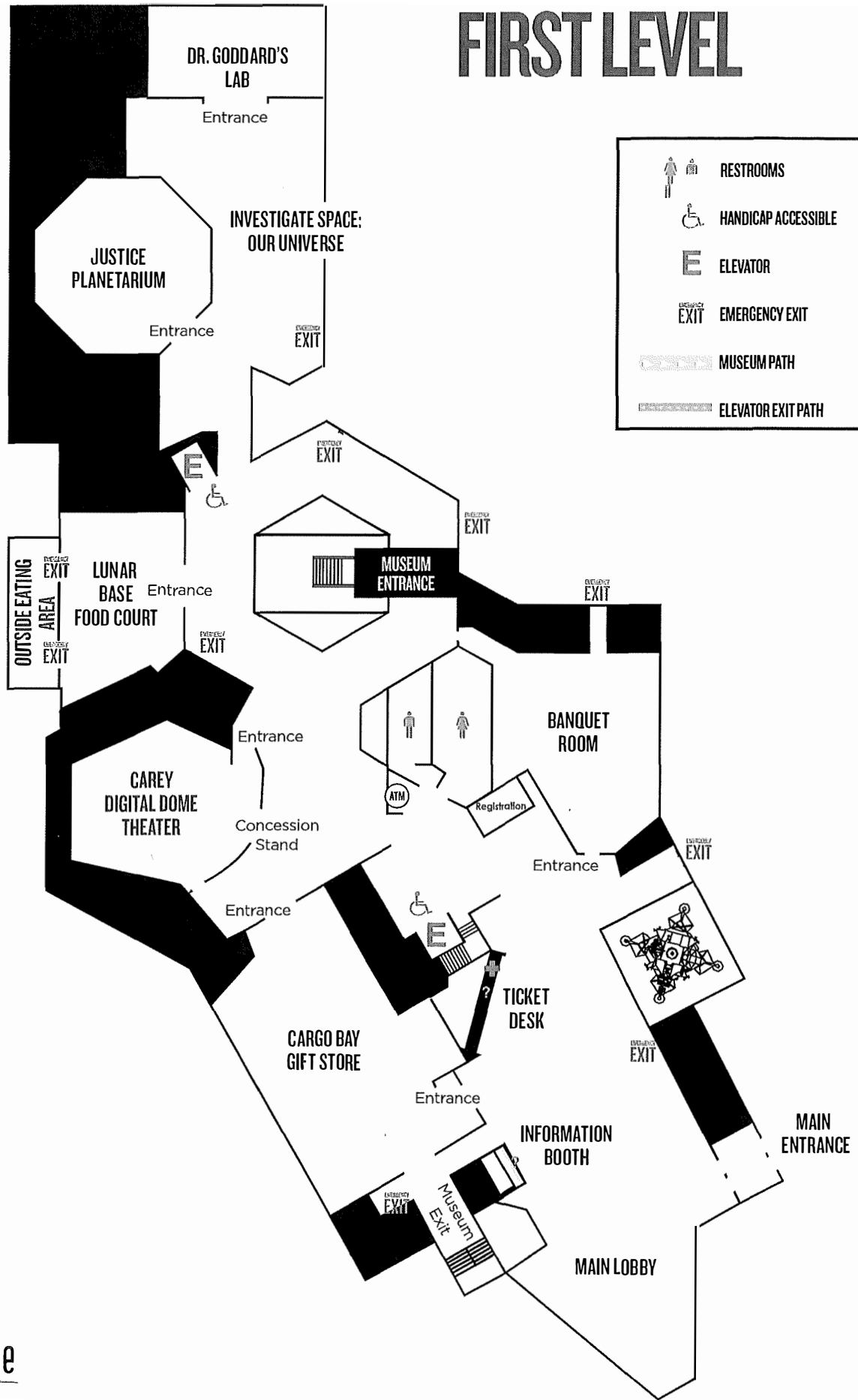


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