

## SUMMER ACADEMY

Breckenridge, CO

June 27-July 1, 2022

### DRAFT AGENDA

*Note: Dates and start/dismiss times will not change, but sessions are subject to change. We expect to post a final agenda by June 1.*

Hotel: Marriott Residence Inn, 600 South Ridge St., Breckenridge, CO 80424; Tel 970-453-1181.

#### **Summer Academy Staff (tentative)**

- Dr Mark Koker, Lab-Aids EVP and Chief Academic Officer, San Leandro, CA
- Dick Duquin, Lab-Aids Senior Consultant, Kenmore, NY
- Lisa Kelp, Lab-Aids Director of Professional Learning, South Lyon, MI
- Stephanie Brunnett, Sales Operation Manager, Boston, MA
- Hethyr Tregerman, Lab-Aids Product Manager, Lab-Aids, Littleton CO
- Chris Keller, Lab-Aids Technology Manager, Lab-Aids, Littleton, CO
- Dr Lisa Martin Hansen, Chair, Science Education Group, CSU-Long Beach, Long Beach, CA
- Maia Binding, SEPUP Developer, Berkeley CA
- Marc Siciliano, Partner, Teaching Institute for Excellence in STEM (TIES), Chicago IL
- Misty Richmond, Teacher, Chicago Public Schools
- Kristin Moon, Science TOSA, Portland Public Schools

#### **Monday, June 27**

- Travel to Colorado; hotel check in time is 3 pm.
- Van Shuttle from the Denver Airport will be provided by Lab-Aids
- Group Dinner TBD

1:00 - 5:00 Getting Started with SEPUP (optional, advance registration required, see end of agenda)

1:00 - 5:00 Building Local STEM Connections in SEPUP (optional, advance registration required, see end of agenda)

#### **Tuesday, June 28**

7:00 Continental Breakfast, hotel, on your own

8:00 Welcome and introductions, *Group*

8:25 Meeting overview

8:30 SEPUP Top Ten

*What's most important about SEPUP? Is it the issues? The support for literacy and assessment? The cute little trays and bottles? This activity will help put it all in perspective. hashtag: #SEPUP*

- 9:30 Goals for the Week and Notebook setup
- 10:30 Using Issues in SEPUP  
*Over the years, SEPUP has become known for its use of societal and personal issues to drive the science curriculum. In this session, we take a closer look at an exemplar activity and unit to focus on the associated environmental issues.*
- 12:00 Lunch
- 1:00 Unit Focus and Interactive Activity  
*Fields is the last of the 17 units that now comprise the NGSS edition. It is all new, from the ground up, and addresses the physical science PEs dealing with electromagnetic forces and why they matter. This session will provide a hands-on overview of the unit.*
- 2:30 Special Focus: Using SEPUP in Urban Schools  
*Kristin is the Science TOSA in Portland (OR) Public Schools, which adopted SEPUP in 2012. She will share her perspectives on what has turned out to be both a non-typical and long-standing adoption in the People's Republic of Portland.*
- 3:30 SEPUP support for Engineering and the NGSS  
*The NGSS materials include additional opportunities for students to with the Science and Engineering Practices, particularly the ETS-1 performance expectations. We will work through selected activities from the new 3e unit, Chemical Reactions. This is a DESIGN activity type. Students design a hand warmer and then construct, test, and evaluate a prototype.*
- 6:30 Group Dinner TBD

**Wednesday, June 29**

- 7:00 Continental Breakfast, hotel, on your own
- 8:00 Literacy in SEPUP  
*SEPUP develops and integrates strategies to support student reading comprehension, writing, oral language, and synthesizing information. This session will discuss the history and evolution of literacy in SEPUP, and how we can use this knowledge to improving learning in the SEPUP classroom.*
- 9:00 Assessment in SEPUP  
*The assessment system in SEPUP, originally developed in with NSF funding in 1995-98, has received national interest and acclaim. This session will present a closer look at the SEPUP assessment system, beginning with background on the original system, and scoring samples of student work led by Dick and will conclude with a presentation by Maia on changes in the assessment approach needed for the NGSS edition.*
- 11:30 Using Driving Question Boards  
*Explore the use of a Driving Question Board (DQB) as a tool to make the phenomena meaningful and connected to science content. Pro-tips and full exemplary DQB walkthrough with an experienced classroom teacher. Several DQBs will be showcased on different*

*platforms (Jamboard, Padlet, Paper, etc) and each participant will have access to each as a template to take back to your classrooms.*

12:30 Box Lunch

1:00 Mid-conference break

*What good is being in such a beautiful spot if you stay indoors and work all the time? Okay, that's rhetorical, no need to answer! You can hike with us to Shrine Ridge (elev 12,000 ft), ride a bike around Breckenridge, shop until you drop in the local mall outlet stores using the county shuttle bus, or just hang out and stare at the mountains. More detail on outdoor options to come.*

5:30 Group Dinner TBD

### ***Thursday, June 30***

7:00 Continental Breakfast, hotel, on your own

8:00 SEPUP and the Nature of Science

*The NGSS provide ancillary support for the nature of science, seen at the bottom of selected foundation boxes and appendices. This session will unpack this topic and detail SEPUP support for this critical science program outcome.*

10:00 Technology support for SEPUP

*New tools include LABsent videos for absent students, new PowerPoints, new PD video support, our Magic Box gateways, plus support for the EQUP rubrics and tools, and more! Bring your laptops and tablets.*

11:00 Literacy in SEPUP

*In this second session on literacy, we will see how using the integrated literacy strategies can improve student learning, using examples from the Chemical Reactions unit.*

12:00 Lunch

1:00 – 5:00 Elective programs

The afternoon will be divided into 50-minute segments (with ten-minute passing times) designed to allow participants to explore areas of interest to them in breakout sessions held in different locations. We will all meet back in the main meeting room at 5:00 pm.

High School SEPUP

*This workshop will introduce the SEPUP high school biology course through a popular activity on gene expression and includes a supporting literacy strategy.*

Adult learners and learning styles

*What are the differences between adult learners and children? What is your preferred learning style? How can this knowledge help you as a workshop leader?*

Attitudes

*Ideas on making participants' attitudes work for you in professional development workshops.*

Using CBAM in Workshop planning

*This session will provide an overview of leadership options for SEPUP, including a look at the Concerns-Based Adoption Model (CBAM) work, from UT- Austin.*

Classroom Management

*Tried and true suggestions for making the SEPUP classroom run smoother and more effectively.*

Technology Tools in SEPUP

*This session will take a closer look at digital tools and ancillaries, from PowerPoints to Video Labs (our LABsent ® program), and much more.*

Leading Local Workshops

*This session is designed for teachers and administrators who wish to take local leadership for SEPUP professional development. We will share workshop outlines we use ourselves for this work along with lessons learned along the way.*

Exploring phenomena and storylines in SEPUP materials

*Participants learn about phenomena, then use a charting process to keep track of how SEPUP unit activities develop connections to the anchor and investigative phenomena.*

ELECTIVE SCHEDULE

1:00-1:50	2:00-2:50	3:00-3:50	4:00-4:50
Adult learners	Attitudes	High School SEPUP	Phenomena and storylines
Phenomena and storylines	Using CBAM	Local Workshops	Local Workshops
Classroom Management	Technology Tools	Classroom Management	Technology Tools

5:00 Final conference evaluation, certificates, and group photo, *Mark*

6:00 Dinner, on your own

**Friday, July 1**

7:00 Continental Breakfast, hotel, on your own

*Safe travels back home!*

## Optional Professional Learning Opportunities

### **Getting started with SEPUP, June 27<sup>th</sup>, 1-5pm**

*This session is designed for teachers/administrators new to SEPUP. This session is by advance registration only. If you have taught SEPUP for more than a semester, we suggest you skip this session. Cost: \$250, includes Sunday, June 26<sup>th</sup> hotel, breakfast and lunch on Monday, and all materials for the session.*

### **Building Local STEM Connections with SEPUP, June 27<sup>th</sup>, 1-5pm with additional sessions on Tuesday and Wednesday afternoons**

*We are excited to announce a collaboration with Left Bank Consulting to offer an additional professional development opportunity at the Summer Academy. Marc Siciliano, longtime colleague and SEPUP champion, leads Left Bank Consulting to support innovation and impact across the entire education landscape.*

*We invite you to an opportunity to build upon the Summer Academy by taking your science curriculum to the next level through community collaborations. Left Bank Consulting will facilitate a workshop this summer to help you design a STEM collaborative experience connecting a SEPUP unit with the resources from your community linking science with museums, youth program providers, cultural institutions, opportunities aligned with your regional workforce, and more. Your STEM collaborative experience will be uniquely designed and localized around your community. Register at the link below and learn more about this exciting addition to our Academy! [www.leftbankconsulting.com/summer-academy](http://www.leftbankconsulting.com/summer-academy)*

*Cost: \$245, includes Monday, Tuesday, and Wednesday sessions. Additional Cost: \$250 includes Sunday hotel stay, breakfast and lunch on Monday.*