



Proven Science Programs

SEPUP ACADEMY Breckenridge, CO

July 22-26, 2019

AGENDA

- Hotel: Marriott Residence Inn, 600 South Ridge St., Breckenridge, CO 80424; Tel 970-453-1181. *LAB-AIDS will cover room and tax, billed directly to our master account. Bring a credit card for check-in to cover incidental expenses.*
- We will meet in the hotel in the Imperial Bowl Room.
- Mark's cell phone: 510-417-6547, E-mail: mkoker@lab-aids.com
- *Participants bring tablets or laptops, make sure to do your advance reading, available on the conference padlet (<https://padlet.com/mhkoker/1qz8i7nbiqf8>)*

SEPUP Academy Staff

- Dr Mark Koker, Lab-Aids Institute, San Leandro, CA
- Dick Duquin, Lab-Aids Senior Consultant, Kenmore, NY
- Lisa Kelp, Lab-Aids Institute, Novi, MI
- Stephanie Brunnett, Lab-Aids New England Sales Manager, Boston, MA
- Chris Keller, Technology Manager, Lab-Aids, Littleton, CO
- Hethyr Tregerman, LAB-AIDS Product 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, July 22

- Travel to Colorado; hotel check in time is 3 pm.
- Van Shuttle from the Denver Airport is through Shuttle Express (<https://www.summitexpress.com/reservations/?LOGON=GO&portal=LABAIDS> password 2019lab). You can make your reservations in advance. Check in at the Shuttle Express counter in the Denver airport upon arrival and after claiming luggage, for the ride up the 'hill' to the hotel in Breckenridge, about 90 minutes, depending upon traffic, and you are dropped at the hotel.
- If your plans change, please change your reservation within 24 hours of scheduled time.

6:00 Dinner, Breckenridge Brew Pub, 600 South Main Street, Breckenridge (about a 1 min walk from the hotel)

Tuesday, July 23

- 7:00 Continental Breakfast, hotel, on your own
- 8:00 Welcome and introductions, *Group*
- 8:25 Meeting overview, *Mark*
- 8:30 SEPUP Top Ten, *Mark*
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, *Dick*
- 10:30 Using Issues in SEPUP, *Maia*
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 (Chemical Reactions 12, Recovering Copper) to focus on the associated environmental issues.
- 12:00 Lunch
- 1:00 Fields and Interactions, *Misty*
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 Using SEPUP in Urban Schools, *Kristin Moon*
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, *Mark and Lisa*
The 3rd Edition materials include additional opportunities for students to work 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 Dinner, Fatty's Pizzeria and Italian, 106 South Ridge Street, Breckenridge (about 8-10 min walk from hotel) Meet in the lobby at 5:45.

Wednesday, July 24

- 7:00 Continental Breakfast, hotel, on your own

- 8:00 Literacy in SEPUP, *Dick*
SEPUP develops and integrates strategies to support student reading comprehension, writing, oral language, and synthesizing information. This session will include a review of the strategies using selected SEPUP program materials and our approach for using notebooks in the science classroom.
- 10:00 Assessment in SEPUP, *Dick and Maia*
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.
- 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 Dinner, Mi Casa Restaurant, 600 South Park Ave, Breckenridge (about 3-5 min from hotel)
We need to be on time to be seated promptly, so please make sure you are back from your afternoon activities in time.

Thursday, July 25

- 7:00 Continental Breakfast, hotel, on your own
- 8:00 SEPUP and the Nature of Science, *Lisa Martin-Hansen*
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, *Chris Keller*
New tools include Labsent videos for absent students, new PowerPoints, new PD video support, our Magic Box gateways, plus support for the EQUIP rubrics and tools, and more! Bring your laptops and tablets.
- 11:00 Perspectives on SEPUP and STEM, *Marc Siciliano*
Developing robust STEM partnerships with school systems, informal education, business and industry, and higher education partners can be challenging. Developing leadership to further support these efforts can be even more challenging, but also deeply rewarding. Marc will share his experiences and reflections with us.
- 12:00 Lunch

Elective programs, 1:00 – 5:00

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 in the hotel. We will post a signup sheet in the morning to allow you to plan your afternoon. Each of these sessions will repeat. We will all meet back in the main meeting room at 5:00 pm.

High School SEPUP, *Stephanie*

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, *Dick*

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?

Using CBAM in Workshop planning, *Mark*

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, *Lisa Kelp*

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

Technology Tools in SEPUP, *Lisa Kelp*

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, *Hethyr*

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, *Lisa Martin Hansen*

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.

SCHEDULE

1:00-1:50	2:00-2:50	3:00-3:50	4:00-4:50
Adult learners/learning styles	Adult learners/learning styles	High School SEPUP	Phenomena and storylines
Phenomena and storylines	Using CBAM in workshops	Leading Local Workshops	Leading 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 26

7:00 Continental Breakfast, hotel, on your own

Safe travels back home!

What we need to order

35 ea: SEPUP Binder, water bottles, t-shirts, assorted sizes to cover everyone

35 The New Science Literacy, Marlene Thier

35 The Case for STEM Education, Rodger Bybee

35 Fields student books

35 @ California and the NGSS (ECO 03)

35 @ SGI brochure (-70)

35 @ EDC brochure (-80)

35 @ NAC brochure (-06A)

1 Fields TE

1 Fields TR

1 Reactions full kit

Materials for Fields activity (Misty to tell us, include sample TE pages)

35 Reactions 12 sampler for 3e Reclaiming the Metal

1 ea set of 17 new 3e student books and TE

1 compiled TR

1 set of CA 6-8 SE, TE, TR

SGI Bio SB, TE, TR and 1 @ W-SGIBD17, 1 @ SGIBB09, 2-3 other samples

LCD Projector

35 @ safety goggles

1 @ disposable rubber gloves, box

1 @ eyewash station