



Proven Science Programs

SEPUP ONLINE ACADEMY

July 20-24, 2020

AGENDA

- We will meet online from 9-12 PDT using a Zoom meeting platform. Your Zoom invites will be sent to you approximately a week before the meetings. Note, there is a separate Zoom invite for the Monday new user session, and a second invite for the Tuesday-Friday session.
- Program files can be viewed here: <https://padlet.com/mhkoker/p79zaqs7thaxst7a>
- Our daily program will be followed by a 30-45 min informal Q&A time, where participants can chat with the day's presenters, if desired
- Questions? Lisa's cell phone: 513-256-3820, E-mail: lkelp@lab-aids.com
- Sessions with **Breakout** as part of the title will incorporate Zoom small group work
- We know that many of you are interested in ideas for teaching SEPUP remotely due to the COVID-19 pandemic. We will incorporate this content in existing sessions where possible, and we have formal session on distance learning on Thursday. In addition, the Thursday after chat session will be largely devoted to this topic (it's a big one). For more info see: <https://docs.google.com/document/d/1WTHhWt4eMfnxrTdQEOMgcnVonfiPRePAuQrhTHX3aD0/edit?usp=sharing>

SEPUP Academy Staff

For Lab-Aids

- Dr Mark Koker, Lab-Aids Institute, San Leandro, CA
- Lisa Kelp, Lab-Aids Institute, Novi, MI
- Dick Duquin, Lab-Aids Senior Consultant, Kenmore, NY
- Stephanie Brunnett, Lab-Aids Sales Operations 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
- Misty Richmond, Teacher, Chicago Public Schools
- Toby Chou, Teacher, The Waverly School, Pasadena, CA
- Lisa Yemma, Teacher, Denver Public Schools

For SEPUP

- Dr Ben Koo, SEPUP Director, Berkeley CA
- Maia Binding, SEPUP Developer and Outreach Coordinator, Berkeley CA
- Barbara Nagle, SEPUP Director Emerita, Oakland CA
- Manisha Hariani, SEPUP Developer, Albany CA
- Janet Bellantoni, SEPUP Developer, Menlo Park, CA
- Tim Hurt, SEPUP Developer, Berkeley CA

- Wendy Jackson, SEPUP Developer, Chicago IL

Before the meeting:

At least three weeks before the meeting

- Register and pay program fees at <https://www.lab-aids.com/remote-academy2020>
- Post your 50-75 word bio statement and your Friday elective choices in the participant google survey, online at <https://forms.gle/e1ubxCfS25XvFXzM7>

At least one week before the meeting

- Schedule a short (30 min) video call to check in and get acquainted with members of your conference working group. We will assign you to a group of 3-4 teachers/administrators based on our top-secret compatibility algorithm at least two weeks prior to the meeting, and will post your group info in the “Participant Information” google sheet, online at https://docs.google.com/spreadsheets/d/1eEctvOnNQAgwNdabnF_u_dOKqL1p-BVq-adCc4I1jvY/edit?usp=sharing
- Make sure you have received your box of meeting equipment and materials (the “Academy box”); if not, please contact Lisa Kelp at lkelp@lab-aids.com

Anytime before the meeting

- Review program files and please do your advance reading, available on the conference padlet <https://padlet.com/mhkoker/p79zaqs7thaxst7a>
- Are you attending the New User session on Monday? Please let Lisa Kelp (lkelp@lab-aids.com) know ahead of time

Monday, July 20

Getting started with SEPUP

This session is designed for teachers/administrators new to SEPUP but is open to all, by advance registration. If you have taught SEPUP for more than a semester, we suggest you skip this session.

8:45 *Log in with your instructions, and hang out in the waiting room to be admitted.*

9:00 Welcome and introductions (Lisa Kelp, Dick Duquin, Misty Richmond)
We will assign you to lab groups at least two weeks prior to the meeting; please schedule a video conference, on your own, among yourselves to meet and greet before we start this week

9:15 Setting up your science notebooks for the week, Dick
Whether online or paper, interactive or spiral bound, science notebooks give students a place to record, process, and retrieve information. We will share several options and methods for using notebooks with your students and will give you a notebook to use for the week.

9:45 SEPUP Overview and Basics, Lisa

10:45 Break

11:00 **Breakout:** Activity focus: Chemical Reactions 12, Recovering Copper, Dick and Misty

This activity contains the key elements of the SEPUP approach – the overarching unit issue, phenomena and driving question, the hands-on approach, and support for literacy and assessment. We will ship a workshop sample equipment package, including everything you need to do the activity in real time.

12:00 Chat/Q&A

Tuesday, July 21

8:45 *Log in with your instructions, and hang out in the waiting room to be admitted.*

9:00 Welcome and Meeting Overview, Mark

We've shared the participant bio statements on the Padlet for the meeting and put you into lab groups for the week using our top-secret compatibility algorithm. By now, we expect you will have reached out to those in your group via video conference to get to know one another and share your goals for the week (if you need help with this, contact Lisa at lkelp@lab-aids.com).

9:15 **Breakout:** SEPUP Top Ten, Mark

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

9:45 Academy notebook setup, Dick

Your Academy box contains a blank science notebook for you to use this week, if desired.

10:00 Perspectives on Issues and Science, Ben

SEPUP, originally known as CEPUP, received its first NSF grant in 1987, to develop instructional materials to explore environmental and societal issues associated with chemical use and disposal. Later, additional NSF funding supported curriculum development in the life, earth, and physical sciences, and CEPUP became SEPUP. More than 30 years later, and still going strong, we welcome Ben Koo, newly appointed Director of SEPUP for his perspective on the continuing relevance and importance of issue-oriented science and what lies ahead for SEPUP in the future.

10:15 Using Issues in SEPUP, Ben and Maia.

Over the years, SEPUP has become known for its use of personal, societal, and environmental issues to provide a meaningful, engaging context for teaching and learning science. In this session, we take a closer look at how particular issues are selected for investigation in SEPUP.

11:00 Break

11:10 **Breakout:** 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. **Please note the advance reading for this session.***

12:10 Chat/Q&A

Wednesday, July 22

- 9:00 **Breakout:** Literacy in SEPUP, *Manisha and Maia*
SEPUP develops and integrates strategies to support student reading comprehension, writing, oral language, and synthesizing information. This session will include a review of the approach and strategies using selected SEPUP program materials.
- 10:15 Using science notebooks and SEPUP, *Dick and Toby*
Whether online or paper, interactive or spiral bound, science notebooks give students a place to record, process, and retrieve information. We will share several options and methods for using notebooks with your students -- as well as distance learning or online options -- and your Academy box will contain a blank notebook to use for the week.
- 10:45 Break
- 11:00 **Breakout:** SEPUP support for Engineering and the NGSS, *Tim, Janet, and Lisa Yemma*
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, Fields and Interactions.
- 12:00 Chat/Q&A
Note, send any changes to the Friday electives to Lisa (lkelp@lab-aids.com) by 1 pm PDT today.

Thursday, July 23

- 9:00 **Breakout:** Assessment in SEPUP, *Maia and Lisa*
The assessment system in SEPUP, originally developed with NSF funding in 1995-98, has received national interest and acclaim, and has been featured in several national publications. This session will present a closer look at the SEPUP assessment system, beginning with background on the original system and changes to the system designed for NGSS. Lisa will moderate the small-group scoring of samples of student work for the Fields unit.
- 10:45 Break
- 11:00 Support for Distance Learning in SEPUP, *Toby and Lisa Y*
As many of us have experienced firsthand by now, teaching and learning at a distance is not the effortless glide the Zoom ads on social media make it out to be. While we hope the start of the school year will be more "normal," we think distance learning will continue to play a role in the 2020-21 school year. This session will combine content, tips, hacks, and more from experienced SEPUP teachers, consultants, and staff to help lighten your load. We encourage your responses and will provide a dedicated board for your feedback and ideas that we will leave up as long as it is needed.
- 12:00 Chat/Q&A

This chat will be dedicated to exploration of ideas for teaching SEPUP remotely. We will record it and make it available for offline viewing after the meeting. For more info, please see <https://docs.google.com/document/d/1WTHhWt4eMfnxrTdQEOMgcnVonfiPRePAuQrhTHX3aD0/edit?usp=sharing>.

Friday, July 24

9:00 Elective program

You will need to pre-register for your Friday electives (last changes by Wednesday at 1:00 pm, PDT), on the Academy Google Sheet info doc. This is so that we can build the individual schedules for you in advance. These are 50 minutes sessions, with 10 minutes allowed for “passing time” in between each session. Please be prompt so that the presenters can start on time.

SCHEDULE

9:10-10:00	10:10 – 11:00	11:10 – 12:00
Technology tools in SEPUP	Technology tools in SEPUP	NGSS Phenomena - Session 2
NGSS Phenomena - Session 1	Classroom Management	Leading Local Workshops
Classroom Management	NGSS Summative Classroom Assessments of 3-D Learning	Supporting Diverse Learners

SESSION DESCRIPTIONS

NGSS-Focused Summative Classroom Assessments of Three-Dimensional Learning, Barbara
Review summative three-dimensional assessments developed to align with the NGSS PEs and learn about the project SEPUP is leading to develop these curriculum agnostic assessments.

Inclusive Instruction: Supporting Diverse Learners, Manisha Hariani
In what ways does the SEPUP curriculum support diverse learners? This session will highlight embedded approaches, offer additional ways to adapt instruction, and provide an opportunity for participants to share ideas.

Classroom Management, Lisa Kelp
Tried and true suggestions for making the SEPUP classroom run smoother and more effectively.

Leading Local Workshops, Mark
Leading local PD? Suggestions and strategies, including sample training outlines from Lab-AIDS, will be shared.

NGSS Phenomena and Storylines in SEPUP, Lisa Martin Hansen and Wendy Jackson
Participants explore how SEPUP unit activities develop connections to the anchor and investigative phenomena. Session 1 is led by Lisa and will focus on phenomena, and charting treatment of phenomena using lessons from a sample unit.

Session 2 is led by Wendy, which will focus on storylines and sensemaking as seen in the Evolution unit. Driving questions for her session include:

- *Why we need storylines (to help us make sense of something)*
- *How storylines are developed in SEPUP to make sense of a set of phenomena (which are all linked by an issue)*
- *How sensemaking builds within a learning sequence and across learning sequences*

Technology Tools in SEPUP, Chris Keller

This session will examine our technology support in SEPUP, beginning with our online Digital Platform, Magic Box, and will take a closer look at digital tools and ancillaries, from PowerPoints to Video Labs our Labsent[®] program, and more.

12:10 Group photo, Mark

12:15 – 12:45 Chat/Q&A -- Be sure to fill out the Academy evaluation:

<https://forms.gle/L2MHsGN8bv62NTuy6>