



SUMMER VIRTUAL ACADEMY

SCIENCE AND GLOBAL ISSUES

July 13-15, 2021

DRAFT AGENDA

Science and Global Issues: Biology was supported by a grant from the Instructional Materials Division (IMD) of the National Science Foundation's Education and Human Resource Directorate, and is developed by the Science Education for Public Understanding Program (SEPUP) at the Lawrence Hall of Science, University of California, Berkeley. The program uses personal, societal, and environmental issues to teach biology and is available exclusively from Lab-Aids.

The Academy is designed for teachers who have used *SGBiology* for at least a year and is designed to explore topics in depth. If you have never used the program, or are a novice user, we suggest you contact us for a new-user implementation training.

- We will meet online from 12-3 EDT using a Zoom meeting platform. Your Zoom invites will be sent to you approximately a week before the meetings.
- Program files can be viewed here: <https://padlet.com/mhkoker/r0fmop77x8z2anz3>
- 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; we will send participants a box of materials in advance, so we can have real time hands-on activities while on the Zoom calls.
- Questions? Lisa Kelp will handle all logistics-related inquiries. 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

SGBiology Academy Staff

For Lab-Aids

- Dr Mark Koker, Lab-Aids Institute, San Leandro, CA
- Lisa Kelp, Lab-Aids Institute, Novi, MI
- Ginny Rehberg, Lab-Aids Senior Consultant, Tacoma (WA) Public Schools
- Dawn Posekany, Lab-Aids Senior Consultant, Solon (IA) Public Schools
- Donna Parker, Lab-Aids Senior Consultant, Dublin (OH) Public Schools
- Chris Keller, Technology Manager, Lab-Aids, Littleton, CO
- Others, TBA

For SEPUP

- Dr Ben Koo, SEPUP Director, Berkeley CA

- Maia Binding, SEPUP Developer and Outreach Coordinator, Berkeley CA
- Wendy Jackson, SEPUP Developer, Chicago IL
- Others, TBA

Before the meeting:

At least three weeks before the meeting

- Register and pay program fees, which cover a shipment of program materials, online at <https://www.lab-aids.com/remote-sgi-academy2021>
- Post your 50-75 word bio statement and your Friday elective choices in the participant google survey, online at [\[insert URL here\]](#)

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 [\[insert URL here\]](#)
- 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/r0fmop77x8z2anz3>*

Tuesday, July 13

Focus on issues and literacy; all agenda times EDT

11:50 Log into the Zoom meeting

12:00 Welcome and introductions, Lisa

We will assign you to lab groups two weeks prior to the meeting so that you can meet each other online.

12:20 Using paper and online science notebooks with *SGI Bio*, Lisa, staff. Donna (paper) and Ginny (online).

How do students make sense of what they are learning? Student sensemaking can take many forms, including the use of science notebooks. Whether digital or paper, interactive or spiral bound, notebooks give students a place to record, process, and retrieve information. We will share several options and methods for using notebooks with your students, both digital and on paper. Participants will have a paper and digital notebook to use for the week.

- 12:40 *Technology tools in SGI Bio, Chris*
Overview of online tools for teaching SGI. This will include a look at the Magic Box portals and their functionality, plus “tips and tricks.”
- 1:00 *Using Issues to Teach Biology (alternate for notebooks, above), Mark, Ginny, & Donna*
SEPUP has pioneered the use of societal, personal, and environmental issues to provide a context for science instruction. We will use Ecology 7 to better understand the use of issues in SGI Biology.
- 1:55 Short break
- 2:00 Literacy tools and approaches in SGI, TBD Dawn and Donna
Every science lesson is also language lesson. Students use language to navigate the lesson and master content. SEPUP uses various literacy approaches to support reading, writing, oral discourse, and media viewing. We will examine several of these, including anticipation guides, three level reading guides, writing frames, walking debates and others, with reference to Cells 13 and Sus 3 as source activities.
- 2:55 Journal reflection: How will you use what you have learned today in your teaching?
- 3:00 Dismiss; staff to remain for 30 min to discuss teacher questions, informal, as needed

Wednesday, July 14

Focus on assessment; all agenda times EDT

- 11:50 Log into the Zoom meeting
- 12:00 Overview of assessment in SGI Bio, Mark and others TBD
- 12:15 Moderating student work using the UC variable, Dawn and Donna
We will use Cells 2 as a way to explore the use of the UC scoring guide to evaluate student work samples. We will post student work samples and pdfs of the activity in the Padlet but you might want to have a student book at hand.
- 1:30 Break
- 1:45 Moderating student work using the AD variable, Ginny and Donna
We will use Cells 10 or Sus 5 (or even Eco 16) as a way to explore the use of the AD scoring guide to evaluate student work samples. We will post student work samples and pdfs of the activity in the Padlet but you might want to have a student book at hand.
- 2:55 Journal reflection: How will you use what you have learned today in your teaching?
- 3:00 Dismiss; staff to remain for 30 min to discuss teacher questions, informal, as needed

Thursday, July 15

Day 3 of the agenda is under construction