

**SESSION 1**  
**Lake Ecology and Lab Tours**

Monday, June 10, 2024 (1:00 – 5:00 p.m.)

**LOCATION: UC Davis Tahoe Science Center Room 141,  
291 Country Club Drive, Incline Village, Nevada**

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| 1:00 – 2:00 p.m. | OPTIONAL: Guided Tour of the UC Davis Tahoe Science Center<br><i>Presentation by Heather Segale, Alison Toy, and Sarah Harry</i>   |
| 2:00 – 2:30 p.m. | Welcome / Introductions / Ice Breaker  |
| 2:30 – 3:20 p.m. | Lake Ecology at Lake Tahoe<br><i>Presentation by Steve Sadro, Associate Professor, UC Davis</i> <ul style="list-style-type: none"><li>• Small lakes in the Sierra</li><li>• Climate change impact on aquatic ecology</li><li>• Questions and answers</li></ul>   |
| 3:20 – 3:30 p.m. | Short break  |
| 3:30 – 4:30 p.m. | Lake Tahoe Topics and Research Projects<br><i>Presentations by Various UC Davis TERC Researchers</i> <ul style="list-style-type: none"><li>• Tahoe's Food Web &amp; AIS – Michael Cane</li><li>• Nearshore Algae, Drones and GIS – Brandon Berry</li><li>• Microplastics – Katie Senft</li><li>• Forest Ecology – Camille Jensen</li></ul> |
| 4:30 – 5:00 p.m. | OPTIONAL: TERC Laboratory Tour<br><i>Presentations by Various UC Davis TERC Researchers</i> <ul style="list-style-type: none"><li>• Forest Ecology Lab – Camille Jensen</li><li>• Biology Lab – Katie Senft</li><li>• Chemistry Labs – Steven Sesma</li></ul>  |

**SESSION 2**  
**Lake Tahoe 101 and Research at Lake Tahoe**

Tuesday, June 11, 2024 (1:00 – 5:30 p.m.)

LOCATION: UC Davis Tahoe Science Center Room 141,  
291 Country Club Drive, Incline Village, Nevada

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| 1:00 – 1:50 p.m. | Lake Tahoe 101: Lake of the Sky – The Story of Lake Tahoe<br><i>Presentation by David Antonucci, Civil &amp; Environmental Engineer</i> <ul style="list-style-type: none"><li>• Facts and Trivia</li><li>• Natural History</li><li>• Bathymetry of the Lake Bottom</li><li>• Cultural and Environmental History</li><li>• Limnology and Climate</li><li>• Environmental Issues</li><li>• Questions and Answers</li></ul> |
| 1:50 – 2:00 p.m. | Break  |
| 2:00 – 2:50 p.m. | Geology of the Lake Tahoe Basin<br><i>Presentation by Dr. Kenneth Verosub, UC Davis</i> <ul style="list-style-type: none"><li>• Formation of Lake Tahoe</li><li>• Faulting / Earthquakes</li><li>• Volcanic Activity</li><li>• Glaciation</li><li>• Landslides</li><li>• Questions and Answers</li></ul>   |
| 2:50 – 3:00 p.m. | Break  |
| 3:00 – 3:50 p.m. | Everything Else You Wanted to Know About Lake Tahoe<br><i>Presentation by Dr. Alex Forrest, Interim Director, UC Davis TERC</i> <ul style="list-style-type: none"><li>• State of the Lake</li><li>• Lake Physics</li><li>• Lake Clarity Modeling</li><li>• Climate Change</li><li>• Other Research Information and Updates</li><li>• Questions and Answers</li></ul>   |
| 3:50 – 4:30      | Break (including appetizers)   |
| 4:30 – 5:30      | The History of Research at Lake Tahoe and Stories of Limnology<br><i>Presentation by Dr. Charles Goldman</i>   |

**SESSION 3**  
**On the Lake UC Davis Research**

Thursday, June 13, 2024 (8:00 – 10:00 a.m.)

LOCATION: Tahoe City Marina  
700 N. Lake Blvd.  
Tahoe City, CA 96145

8:00 – 10:00 a.m.      Boat Trip on the Research Vessel John LeConte

*Presentation by UC Davis TERC Boat Captain*

- View Lake Tahoe's watershed
- Lake research and monitoring
- Regular lake sampling
  - Clarity measurements (using the Secchi disk)
  - Nutrient and Algae sampling (using the Van Dorn sampler)
  - Zooplankton (using the plankton net)
  - NASA buoys and research
  - Questions and answers

*Note: Liability waiver must be signed to participate*

**DOCENT TRAINING EXTRA**  
**For those intending to become volunteer docents**

Friday, June 14, 2024 (1:30 p.m. – 5:00 p.m.)

LOCATION: Zoom Webinar or UC Davis Tahoe Science Center Room 141,  
291 Country Club Drive, Incline Village, Nevada

Video Links at <https://tahoe.ucdavis.edu/docents>

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| 1:30 – 1:50 p.m. | Volunteer Docent Program Overview <ul style="list-style-type: none"><li>• Mission and Goals</li><li>• Major Themes &amp; Talking Points</li><li>• Docent Resources</li><li>• Question and Answers</li></ul>  |
| 1:50 – 2:20 p.m. | Overview of Exhibits of the Tahoe Science Center<br><i>Presentation by Heather Segale, Education Program Director</i> <ul style="list-style-type: none"><li>• Hike through the Docent Binder</li><li>• Major Themes &amp; Talking Points</li><li>• Sign-up for shifts and check manifest</li></ul>   |
| 2:20 – 2:30 p.m. | Short Break  |
| 2:30 – 3:00 p.m. | Exhibits of the Tahoe Science Center<br><i>Exhibit Rotation #1</i> <ul style="list-style-type: none"><li>• Donor Wall, Reception Desk, Survey iPads, Tahoe Watershed Map, Research Vessel John Le Conte, Microplastics Exhibit, and Research in Action Wall (<i>Alison</i>)</li></ul>  |
| 3:00 – 3:30 p.m. | Exhibits of the Tahoe Science Center, continued<br><i>Exhibit Rotation #2</i> <ul style="list-style-type: none"><li>• Large Monitor, Virtual Biology Lab, Aquariums, Live Organisms, and Microscope (<i>Logan</i>)</li></ul>   |
| 3:30 – 4:00 p.m. | Exhibits of the Tahoe Science Center, continued<br><i>Exhibit Rotation #3</i> <ul style="list-style-type: none"><li>• 3D Theater, AR Sandbox, Docent Room, Lake Conditions Exhibit, Donation Buoy, and Watershed Cubbies (<i>Heather</i>)</li></ul>  |
| 4:00 – 4:30 p.m. | Exhibits of the Tahoe Science Center, continued<br><i>Exhibit Rotation #4</i> <ul style="list-style-type: none"><li>• Field Trip Room, Glasses Cleaning, Kitchen, Take Care Mural, Hands-on exhibits in TCES 141 (<i>Sarah</i>)</li></ul>  |
| 4:30 – 5:00 p.m. | Exhibits of the Tahoe Science Center, continued<br><i>Exhibit Rotation #5</i> <ul style="list-style-type: none"><li>• Underwater Lounge, Green Building Exhibits (<i>Penelope</i>)</li><li>• Field Trip Room, Glasses cleaning, Kitchen, Lake Conditions Exhibit, Green Building Exhibits, Take Care Mural, and Hands-on exhibits (<i>Sarah</i>)</li></ul> |

## **DOCENT TRAINING HOMEWORK** **For those intending to become volunteer docents**

Watch video on your own time: <https://youtu.be/eKOE3amypU> Introduction to UC Davis TERC and Docent Program Information  
*Presentation by Heather Segale, Education and Outreach Director and Alison Toy, Volunteer Docent Manager*

- TERC mission, facilities, and research
- Docent program description and expectations
- Safety

Watch video on your own time: <https://youtu.be/PEpKb6H4LG4> Online Docent Resources

- New sections of Docent Manual
- Navigating video resources on the UC Davis Tahoe YouTube Channel
- Social Media
- Reviews: Yelp, TripAdvisor, Google
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Watch video on your own time: [https://youtu.be/F\\_4aoq4qICs](https://youtu.be/F_4aoq4qICs) Geology of the Lake Tahoe Basin  
*Presentation by Annie Kell, University of Nevada, Reno*

- Geology of the region
- Lake Tahoe Basin formation
- Glacial History
- Underwater Landslide
- Bathymetry
- Expectation of earthquakes and other geologic hazards

Watch video on your own time: <https://youtu.be/sMCw8n1yx0> Stories of Tahoe and Research  
*Presentation by Dr. Charles Goldman, Professor Emeritus, UC Davis*

- Teaching limnology
- Six decades of research at Lake Tahoe with the Tahoe Research Group
- Changes at Lake Tahoe
- Sewage, Algal Growth, and Bioassays
- Science Impacts on Tahoe's Future
- Greatest Contribution

### **MORE ON YOUR OWN**

1. Review Docent Manual (PDF available at <https://tahoe.ucdavis.edu/docents>)
2. Sign up for 2 shadowing dates
3. Sign up for your first shift! You can partner up if desired.
4. *Attend monthly lectures (as interest and time allows)*