

SESSION 1
Lake Ecology and Lab Tours

Monday, June 10, 2024 (1:00 – 5:00 p.m.)
Optional Happy Hour (4:30 – 5:30 p.m.)

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

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| 1:00-2:00 p.m. | OPTIONAL: Guided Tour of the UC Davis Tahoe Science Center
<i>Presentation by Heather Segale, Alison Toy, and Sarah Harry</i> |
| 2:00-2:30 p.m. | Welcome / Introductions / Ice Breaker |
| 2:30-3:30 p.m. | Lake Ecology at Lake Tahoe
<i>Presentation by Steve Sadro, Associate Professor, UC Davis</i> <ul style="list-style-type: none">• Small lakes in the Sierra• Climate change impact on aquatic ecology• Questions and answers |
| 3:30-3:40 | Short Break |
| 3:40-4:30 p.m. | TERC Laboratory Tour <ul style="list-style-type: none">• Forest Ecology Lab• Biology Lab• Chemistry Labs |
| 4:30-5:30 p.m. | Happy Hour |

SESSION 2
Lake Tahoe 101 and Research at Lake Tahoe

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

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

- 1:00-2:15 p.m. Lake Tahoe 101: Lake of the Sky – The Story of Lake Tahoe
Presentation by David Antonucci, Civil & Environmental Engineer
- Facts and Trivia
 - Natural History
 - Bathymetry of the Lake Bottom
 - Cultural and Environmental History
 - Limnology and Climate
 - Environmental Issues
 - Questions and Answers
- 2:15-2:30 p.m. Short Break
- 2:30-4:00 p.m. Various TERC Research Projects
- Tahoe’s Food Web & AIS – Michael Cane
 - Nearshore Algae, Drones and GIS – Brandon Berry
 - Microplastics – Katie Senft
 - Forest Ecology – Tricia Maloney
- 4:00-5:00 p.m. Everything You Wanted to Know About Lake Tahoe
Presentation by Dr. Alex Forrest, Interim Director, UC Davis TERC
- State of the Lake
 - Lake Physics
 - Lake Clarity Modeling
 - Climate Change
 - Invasive Species Research
 - Microplastics
 - Other Research Information and Updates
 - Questions and Answers

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

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
-

Watch video on your own time:
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)*